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*OPD Wishes You a Happy New Year!*

# Oil, Paint and Drug Reporter

*Founded 1871 by William O. Allison* — *Member Audit Bureau of Circulations*

THE CHEMICAL MARKET AUTHORITY SINCE 1871

*Published by*
*Schnell Publishing Company, Inc.*

Volume 140
Number 26

December 29, 1941

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**TRIAMYLAMINE**

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# B COMPLEX IS NEWS...

**These charts show the increase in public familiarity with Vitamin B Complex over a 6-months period.**

NOVEMBER, 1940

MARCH, 1941

MAY, 1941

New discoveries regarding members of the ever increasing B-Complex family make headlines almost daily. More and more people are becoming vitamin-conscious . . . aware of the part played by these B Complex vitamins in human nutrition.

How many factors exist in the B Complex . . . how the various isolated factors produce their desired results...are questions still on the research frontier. *It is an established fact, however, that yeast contains the entire B Complex.*

*All* of the factors . . . known and unknown . . . are found in these Fleischmann's yeast-derived B-Complex products:

**FLEISCHMANN'S HIGH B YEASTS**

| Type | Thiamin | | *Vitamin Potencies Per Gram:* *As determined by the Fleischmann Laboratories:* | | |
|---|---|---|---|---|---|
| 200-B | 200 I.U. | *Plus* | Riboflavin | 70 micrograms | and all the other known and unknown members of the Vitamin B Complex *natural to yeast.* |
| 90-B | 90 I.U. | | Nicotinic Acid | 600 micrograms | |
| 50-B | 50 I.U. | | Pyridoxine ($B_6$) | 85 micrograms | |
| | | | Pantothenic Acid | 200 micrograms | |

**FLEISCHMANN'S BEE-FLEX TYPE 321**

| | | *Vitamin Potencies Per Gram:* *As determined by the Fleischmann Laboratories:* | | |
|---|---|---|---|---|
| Thiamin ($B_1$) 150 I.U. Riboflavin (G) 500 micrograms | *Plus* | Nicotinic acid | 500 micrograms | and all the other known and unknown members of the Vitamin B Complex *natural to yeast.* |
| | | Pyridoxine ($B_6$) | 85 micrograms | |
| | | Pantothenic Acid | 250 micrograms | |

*Experience in the nutrition field and extensive research facilities make Standard Brands a logical consultant on problems concerning food and pharmaceutical uses of these Fleischmann products.*

## STANDARD BRANDS INCORPORATED

*Pharmaceutical Division* *Special Products Department*

595 MADISON AVENUE • NEW YORK, NEW YORK

# Oil, Paint and Drug Reporter

*Founded 1871 by William O. Allison*
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Volume 140 — December 29, 1941 — Number 26


## Priorities Basic Regulation Amended

*OPD Washington Bureau*
*December 23, 1941*

Priorities Regulation No. 1, the basic document which governs the operations of the priority system, has been amended in several important respects effective today. Most important of the changes is a requirement that all orders bearing a priority rating, including B-ratings for essential civilian orders as well as A-ratings for defense orders, must be accepted by producers, in preference to any unrated order. Previously the acceptance of B-rated orders was not mandatory.

The required acceptance of B-rated orders is a further transitional step in the move toward allocation of scarce materials, since B ratings are one method of designating the rela-


*—Continued on page 27*


## Small Business Unit Setup in Commerce Dept.

*OPD Washington Bureau*
*December 26, 1941*

Secretary of Commerce Jesse Jones today announced establishment of a Small Business Unit in the Department of Commerce to coordinate the activities of the department which are of use to proprieters of small manufacturing and distributing firms during the war period.

Headed by William Shepardson, of New York, former management consultant for manufacturers and distributors, and staffed by experienced departmental employees, the Small Business Unit will devote its attention primarily to problems of internal management particularly as they arise out of the war and post-war situation. Many of the activities of the Small Business Unit will be educational in character and will draw upon the services of the field representatives of the Department of Commerce, located in thirty-one commercial areas of the country.

## Priorities Div. Withdraws Aid from Cottonseed Co.

*OPD Washington Bureau*
*December 24, 1941*

A suspension order, withdrawing all priority assistance for a period of six months, has been issued against the Enterprise Oil Company, Enterprise, Ala., for violation of the provisions of General Preference Order M-12, has been issued by the Priorities Division, Office of Production Management. The order provides that a mill making but one cut of cotton linters shall not sell more than 20 percent of its mill run cotton linters other than for ultimate use in the chemical industry.


*—Continued on page 41*


## Oil Pipeline Companies Held to 7% Profit

*OPD Washington Bureau*
*December 23, 1941*

The Department of Justice today announced the filing of a complaint and the entry of a final judgment in the United States District Court for the District of Columbia against twenty major oil companies and fifty-two common carriers by pipeline and seven companies which are subsidiaries or affiliates of the major oil companies, on charges of violating the rebate provisions of the interstate commerce act and the Elkins act.

Under terms of the final judgment, to which all defendants agree:—


*—Continued on page 51*


## *Insulin Control Bill Signed*

*OPD Washington Bureau*
*December 23, 1941*

The Food and Drug Administration of the Federal Security Agency is now in full control of the purity and standard potency of insulin, a drug essential to the treatment of diabetes, following approval by President Roosevelt of an amendment to the Federal food, drug and cosmetic act. The control will be maintaned through a system of assay and certification.

## Frolich to Head A.C.S. in 1943

Dr. Per K. Frolich, director of the chemical division of Esso laboratories of the Standard Oil Development Company, Elizabeth, N. J., and internationally known for his work in the development of synthetic rubber, has been elected president of the American Chemical Society for 1943.

Dr. Frolich will take office as president-elect January 1, 1942, when Dr.


*—Continued on page 34*


## U.S.P. Changes Made

Changes in U.S.P. standards for aromatic spirit of ammonia, ergot, insulin injection, liniment of soft soap, rose water ointment, and squill are made in interim revision announcement No. 4, issued December 23, from the office of E. Fullerton Cook, chairman of the revision committee.

Oil of lavender is omitted from aromatic spirit of ammonia and replaced with oil of cedar leaf in liniment of soft soap. Rose odor may be omitted from rose water ointment, and apricot kernel oil may replace almond oil in that preparation. Indian squill is recognized as an alternate for Mediterranean squill.

# Labor Board Must Clarify Attitude on Employer's Views

*OPD Washington Bureau, December 22, 1941*

The Supreme Court of the United States has reinstated for redetermination of issues the order of the National Labor Relations Board which penalized the Virginia Electric & Power Company for actions and utterances alleged by the board to have been in violation of the Wagner labor act. The order had been completely set aside by United States Circuit Court of Appeals.

The point at issue, as noted by the supreme court, was whether the company dominated the formation and functioning of an organization of its employees. The company argued that this allegation was based largely on the board's having sought to deny it the right to discuss labor problems and interchange labor views with its employees. In respect of this defense point, the supreme court said:—

Neither the act nor the board's order here enjoins the employer from expressing its views on labor policies or problems, nor is a penalty imposed upon it because of any utterance which it has made.

### Clarity Requested

It was the opinion of the Supreme Court that the labor board had failed to make clear the basis of its findings that the company had violated the law. The case was remanded with the order that the board clarify this point, especially with respect to the weight put upon speeches made by executives of the company and statements in a bulletin to its employees. Holding that these utterances alone did not constitute coercion, the high court asked that the board appraise contributory actions which may have influenced it in its findings.

Stress was laid on the fact that the statute makes the board's findings of fact conclusive, or that the courts "must even guard against allowing


*—Continued on page 56*


## R.M. Neumann Observes 35 Years with N.J. Zinc

R. M. Neumann, general sales manager, marked his thirty-fifth anniversary of service with the New Jersey Zinc Company on December 18.

R. M. Neumann

Born in this city, Mr. Neumann received his education at the New York Preparatory School and the College of the City of New York. He joined the New Jersey Zinc organization in 1906 as a clerk in the treasury department, and was advanced to


*—Continued on page 29*


## Dry Color Price Agreement Extended

*OPD Washington Bureau*
*December 24, 1941*

Individual agreements with manufacturers of dry colors, stabilizing prices, which were due to expire January 1, have, with minor modifications, been extended to April 1, 1942, it was announced today by Price Administrator Leon Henderson. Officials of the Office of Price Administration expressed gratification at the complete cooperation of the trade in holding to their agreements not to increase prices, thus obviating the necessity for formal price action.

Under the extension, the agreements were broadened to include pulp colors, certified food colors, dispersed colors, and other similar products. The agreements, discussed with representatives of producers at a meeting in New York, December 17, provided for prices to be held to the levels quoted in price lists of a majority of producers in effect on October 1, 1941.

Exceptions to this are "peacock blue," the price of which is not to exceed 52 cents per pound for the base grade; and "English vermilion." The latter color is not included because mercury is used in its manufacture, and prices will be controlled through a control of mercury prices.

Mr. Henderson stated that, because of the agreements with the producers and their full cooperation to date, no formal action to precent inflationary price rises will be taken by the OPA during the first quarter of 1942.

# *Synthesizing Drying Oils*

## *Process of Producing Conjugation in Unconjugated Polyenes*

*Specifications and Claims of United States Patent 2,242,230 Issued May 20, 1941, to George O. Burr, Assignor to Regents of the University of Minnesota*

This invention relates to procedures for converting substances having unconjugated double bonds into substances having conjugated double bonds, and to the new products of such procedures.

There are many widely distributed natural substances such as the oils pressed from flaxseed, rape, soybean, poppyseed, peanut, or sunflower seed, and fish oils such as codliver oil, whale oil, and the like, which are composed of one or more constituents having what is known as unconjugated double bonds. One of the characteristics of substances having the unconjugated double bond arrangement is that they do not in their natural state as readily form films when exposed to air as do conjugated systems. While some of these oils are classified as "drying oils" or "semidrying oils," the classification is based upon the fact that by suitable processing they may be converted into such drying or semidrying materials.

By contrast nature has provided only two well-known oils which in their natural state have the conjugated systems, and exhibit the drying effect. These oils are tung oil, which is also known as chinawood oil, and oiticica oil, the latter being as yet rare and little used. As a consequence, because of the large and growing demand and comparatively small supply, tung oil commands a high market price.

I have discovered a method of converting substances having the unconjugated double bond structure to substances having the conjugated double bond structure which is applicable to natural products such as linseed, corn, and cottonseed oil and to the derivatives of or otherwise produced constituents of such natural products in which the unconjugated double bonds occur, and as a result I am able to impart to such cheap and plentiful materials some of the attributes of the more expensive tung oil.

It is therefore an object of the present invention to provide a procedure for converting substances having unconjugated double bonds into sub-


*—Continued on page 36*

## OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals, oils, and drugs is currently as follows:—

| Dec. 26, 1941. | Dec. 19, 1941. | Dec. 27, 1940. |
|---|---|---|
| 141.0 | 141.0 | 106.7 |

Coaltar chemicals and drugs and fine chemicals are up a little from the previous week. All other groups are unchanged.

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

## Closing Markets

### Lead Silicate Higher

Prices for lead silicate in bags advanced to the basis of 6.75c. per pound for 5 tons or over and 7.25c. per pound for smaller lots.

### Superphosphate Higher

A prominent supplier of superphosphate last week was offering at the advanced price of $9.60 per ton for run-of-pile material and $10.10 for guaranteed 16%, both in bulk, f.o.b. Baltimore.

## Export License Setup To Be Changed Jan. 19

*OPD Washington Bureau*
*December 24, 1941*

The Board of Economic Warfare announced today that, after January 19, 1942, American exporters will be required to have individual licenses for the exportation of a long list of articles and materials now being exported under general licenses. Detailed information with respect to the items concerned will not be available until the publication of Comprehensive Export Control Schedule No. 5 by the Superintendent of Documents on January 2, 1942.

These changes will eliminate many general licenses under which shipments of strategic and critical com-

—*Continued on page* 33

## OPA Price Request Pegs Wax Quotations

*OPD Washington Bureau*
*December 24, 1941*

The Office of Price Administration on December 24 at 6 p.m., telegraphed to sellers of waxes a request to abstain from selling carnauba, bees, candelilla, or ouricury waxes at prices in excess of definitely specified price limits.

What appears to have been a uniform telegraphic request, sent out by Leon Henderson, Administrator Office of Price Administration, was as follows:—

Until further notice from this office, you are requested not to sell carnauba wax, beeswax, candelilla wax, or ouricury wax at price in excess of the following per pound, f.o.b.;—Carnauba wax, No. 1 yellow, 88c.; No. 2 yellow, 87c.; No. 3 yellow, 85c.; No. 2 North Country, 84c.; No. 3 North Country, 79c.; No. 3 chalky, 78c. Beeswax, yellow, Brazilian, Chilean, crude grade, 50c.; American crude, 49c.; white bleached, 56c. Candelilla wax, 33c.; Ouricury wax, imported, 55c.; refined, 62c. Regular differentials, as to quantity and packages, may be used.

## Zinc Reserve Order Extended to March 31

*OPD Washington Bureau*
*December 26, 1941*

General Preference Order M-11 controlling the distribution of zinc was today extended to March 31, 1942. The order was scheduled to expire December 30.

The zinc order requires all producers to set aside a percentage of the zinc, zinc oxide, and zinc dust produced each month to be distributed upon expressed direction by the Director of Priorities and provides for allocation for controlled distribution of the remainder.

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## *Chemical Prices Changed Little*

There was no markedly definite price trend in the markets for chemicals and related materials last week. The relatively few changes were somewhat more on the advanced side, but the weight of their effect on averages was but slight. Once again, in spite of the curtailed list, quicksilver was among the dearer articles—heat of tempers, rather than warmth of weather, is the upping influence on the mercury at this time.

The holiday slowed up and closed down a deal of office activity, put plants went steadily on, and so did shipments on defense orders. Allocations began to tighten up; some talk there was about putting these to work as substitutes for price ceilings.

Among the more important articles on which prices were advanced were quicksilver, cresols, tar acid oils, crude creosote oil in tankcars, crude naphthalene in similar lots, chemical lime, blackstrap molasses, castor beans, pale gum rosins, gum turpentine, Sumatra benzoin, tapioca flour, rhubarb, and sage.

Prices were reduced on dark and medium gum rosins, steamed bone at Chicago, coriander seed, Zanzibar cloves, and a number of botanical materials of lesser importance.

The result of the changes is shown in the *OPM Price Index* at the top of the column on the left.

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## War Dept. Procurement To Be Decentralized

*OPD Washington Bureau*
*December 23, 1941*

To expedite the war effort by decentralizing War Department procurement, Under Secretary of War Robert P. Patterson today authorized local contracting and procurement officers to award all contracts amounting to less than $1,000,000 in their own offices without sending them to Washington for approval.

At the same time, authority was given for awarding of contracts totalling from $1,000,000 to $5,000,000 by the local officers, subject to clearance only by the Office of Production Management and the Chiefs of Supply Arms and Services. Contracts for more than $5,000,000 will still require clearance by the Under Secretary's office. Each corps officer will de-

—*Continued on page* 33

## Adams Made President Of Standard Brands

James S. Adams has been elected president and chief executive officer of Standard Brands, Inc., this city, succeeding Thomas L. Smith, who has been made chairman of the board and who also will act in an advisory capacity. Mr. Adams was formerly executive vice-president of the Col-

—*Continued on page* 34

## U.S.-Cuban Trade Pact Signed

A supplementary trade agreement between the United States and Cuba, taking into account developments which have taken place since the signing of the original and first supplemental agreements, and providing for additional reductions by both countries in the tariff rates on specified imports has been completed, it was announced today by the Department of State.

Like the original and first supplementary agreements, the new agreement is an exclusive, preferential arrangement between the two countries,

—*Continued on page* 53

## General Aniline to Make Bullitt Board Chairman

William C. Bullitt, former Ambassador to France and confidant of President Roosevelt, is to be elected chairman of the board of directors of the General Aniline & Film Corp. as soon as legal requirements can be complied with. John E. Mack, president,, has announced. Mr. Bullitt at present is now in Beirut, Lebanon.

Placed on its directorate was Ralph Budd, president of the Chicago, Burlington & Quincy Railroad, and Robert L. Stephens. The company also announced that Felix Iselin is no longer a director of the corporation, and that D. A. Schmitz has been requested to resign from the directorate.

Regarding the contract of the corporation with the General Dyestuff Corporation, the following resolution was passed:—

Whereas, the present relationship of this corporation and the General Dyestuff Corporation is subject to question as to its terms, legality, propriety and advisability;

Therefore, the president is requested to secure with all convenient speed a legal opinion as to the nature and terms of such relationship and as to the rights and powers of this corporation to terminate the same, and to lay such advice before this board.

## Marketing Laws Survey Now in Commerce Dep't

The Marketing Laws Survey has been transferred from the Works Project Administration to the Department of Commerce. Henceforth the Marketing Laws Survey will function as a part of the Bureau of Foreign and Domestic Commerce, the vast bulk of whose work is devoted to the war effort. It will be under the immediate supervision of the bureau's division of regional economy, which directs the activities of the department's field service.

# Washington Talks It Over

## Observations • Prognostications • Developments

*By OPD Observer*

What to do in the war is asked by every civilian and it is no less industry's problem. The quick answer is to cooperate with local civilian defense officials, and OCD headquarters is working feverishly to get things organized so local committees won't get their wires crossed and go off half-cocked.

Washington really expects some air raids, euphemistically referred to as "token raids," so if your plant is within a couple of hours' flying distance from any seacoast, prepare to black it out at night on a moment's notice; otherwise a zealous air-raid warden may throw a master switch and cut off all power as well as light.

Double your guard against sabotage, not only from enemy aliens but from cranks and crazy men.

Combat espionage by revealing nothing, in conversation, advertisement, or letter, about war contracts or production unless you have official "clearance."

Be prepared to lose employees to the armed forces, and to train new workers.

Follow government instructions, return statistical reports promptly, don't squawk too much about shortages caused by priorities and allocations.

Hunt out scrap materials and excess inventories and channel them into war uses.

Promote the sales of defense bonds among your employees.

### The Farmer Wants No Roof

Indications as to what to expect in the way of price ceilings on farm commodities is contained in the cottonseed oil price schedule issued by Price Administrator Leon Henderson Saturday. This schedule calls for an increase of 11 per cent in the ceiling price of this commodity, being the difference between the price as of October 1 and that of November 26, the base date for the original fats and oils ceiling.

This would indicate that the Office of Price Administration has decided to accept the provision contained in the price-control bill as passed by the senate, prohibiting the setting of any price ceiling on farm commodities at a level lower than the market price October 1. So, it is a pretty safe bet that ceilings for agricultural commodities will be revised to conform with the levels of October 1.

In this connection, Leon Henderson, in a statement issued late last week, said:

> In the case of ceilings on agricultural commodities some changes will be necessary to bring existing schedules into line with the special standards which have been set up for farm products. Three special standards were established for these commodities in the house bill. Of these the senate subcommittee has approved but one, namely, that no price shall be established below the market price prevailing October 1. Existing ceilings on domestic farm commodities will be reexamined in the light of the October 1 provision.

### Alcohol Roof-Raising

The OPA action in doubling the permitted maximum prices of corn chemicals, including alcohol from whatever source, doesn't necessarily mean a change in policy, because OPA insists that as a general rule low-cost producers should not benefit from higher ceilings given marginal producers for the purpose of increasing production.

In this case, apparently, Henderson gave in to the all-powerful farm lobby, aided by officials and processors, seeking high prices for corn going into any use. Attempts to differentiate between the prices of molasses-alcohol and corn-alcohol and between different uses of corn were not very satisfactory, so the price of all this group of chemicals goes up to fit the corn market and new, high-cost processors.

This makes it tough for all nonwar users of alcohol—and also notifies molasses exporting countries that U. S. purchasers need their blackstrap desperately and are in position to pay more for it.

### Priority Crackers Cracked

The absolute nature of the power over all industry possessed by the Director of Priorities of OPM was demonstrated this week by a couple of examples of its exercise. A cottonseed ginner and a silk mill were cited for using and selling materials in violation of OPM orders—and the penalties are complete shutdown of all business for six months or more.

Neither concern can obtain anything subject to priority control or buy or sell cotton linters or silk, respectively, and no other person can buy or sell to either of them. These were suspension orders No. 3 and 4. (Note:—"Suspension" is synonymous with "hanging.") OPM doesn't think its "S series" of orders will be very long; a few crack-downs should have a widespread salutary effect.

Very significant is the fact that one of the suspension orders cited violation of an OPA price ceiling as justifying the punishment, which should interest some legal academicians who have argued that Henderson's price orders couldn't be enforced.

A more sweeping use of the priorities power is to help Ickes enforce his crude oil conservation and well-spacing program. Lawyers said this was a State matter and the Federal government couldn't touch it, but OPM tells producers they not only can't buy anything but can't even withdraw materials from their own inventories to drill oil wells in violation of the conservation regulation.

### Free Trade with Canada

All, or many important, customs duties between the United States and Canada may be removed for the duration of the war. This has been recommended by the Joint War Production Committee of the two nations and approved by the Canadian War Cabinet and by President Roosevelt. The President ordered all administrative agencies to carry out the policy so far as possible and has started a study of legislative changes necessary to give full effect to the declaration.

Section 318 of the tariff law permits the President to waive tariff duties on imports of food, medicines, and other supplies needed for relief in times of emergencies, but this language is not quite broad enough to fit this situation, and legislation will have to be sought. The joint committee reported that an all-out war production effort in both countries requires the maximum use of labor, raw materials, and facilities in each country, that raw materials be pooled and allocated between the two countries and the production of both be integrated. This means that tariffs and other trade barriers be suspended or eliminated for the duration of the war.

The recommendation recalls proposals which have been made with varying degrees of support for more than a century that there should be complete, reciprocal, free trade between the United States and Canada.

### Transportation Controlled

Spurred by war exigencies, the President has finally moved toward the long-discussed coordination of transportation, and by executive order has appointed Joseph B. Eastman, chairman of the Interstate Commerce Commission, as director of the new Office of Defense Transportation, a branch of the Executive Office. For the duration, at least, this appears to take the regulation of commerce away from Congress which has jealously guarded its jurisdiction for 150 years.

So far as the order reads, the di-

—*Continued on page* 41

## Burlap Allocation Ordered by OPM

*OPD Washington Bureau*
*December* 22, 1941

The Office of Production Management today placed under allocation the stocks of burlap held in this country. The order also covers future deliveries from India.

Three-fourths of the imports of burlap is now used to bag agricultural and chemical products. The remaining one-fourth is used by the furniture, upholstery, rug and carpet, textile, meat-packing, and rubber industries.

Under the order, one-third of the present inventory and future deliveries will be made available for bagging agricultural and chemical products; two-thirds will be set aside in a stockpile over which the OPM will have control. Army, Navy and civilian defense will have first call on it. If any is left, it may be made available for bags for agricultural and chemical products and for hardship cases. Unbroken bales now in inventory may be used for bags for agricultural and chemical products. None of it may be used for the other peacetime uses.

The order sets up a system of quotas for importers, importing bag manufacturers, and non-importing bag manufacturers. The quotas for importers apply to burlap shipped from Calcutta on and after January 15, and are based on their average annual imports during the period from 1935 to 1939, inclusive.

Quotas for non-importing bag manufacturers become effective January 1, 1942, and are based on their burlap purchases in 1939 and 1940. Bag manufacturers are required to distribute bags to their 1941 customers in the same proportion as they did in 1941. Slashing or mutilating bags in opening them is prohibited. Inventory of any importer, importing bag manufacturer, or non-importing bag manufacturer is restricted to a 30-days' supply.

## Magnus Recalled to Head N.Y. Board of Trade

Percy C. Magnus, president of Magnus, Mabee & Reynard, essential oils, this city, has been drafted to once more serve the New York Board of Trade as its president.

It was in 1933 when he was first elevated to the post which he occupied with distinction and achieve-

Percy C. Magnus

ment for five years. He took up his duties in the midst of the worst business crisis of all time in this country and by forceful, dynamic leadership gave authority and new influence to the New York Board of Trade in the

—*Continued on page* 45

## N.P.V.L.A. Executive Groups to Meet Jan. 15

*OPD Washington Bureau*
*December* 22, 1941

The executive committee of the National Paint, Varnish and Lacquer Association, Inc., is scheduled to hold its annual organization meeting January 15, in New York City, in the Pennsylvania hotel. The budget and finance committee is scheduled to hold a dinner session on January 14, in the same hotel.

## I.C.C. Sets Hearing On L.C.L. Increase

*OPD Washington Bureau*
*December* 22, 1941

The Interstate Commerce Commission today assigned for hearing before Commissioner Aitchison, in the Morrison hotel, Chicago, January 9, the question whether or not the commission should suspend the effective date of January 20 for an emergency increase of 10 cents on all less-than-carload shipments.

L. O. Head, president of the Railway Express Agency, which organization asked for the increase, explained that the added charge was essential to enable the company to pay wage increases recently put into effect upon recommendation of the National Defense Mediation Board, together with other recent increases in labor costs which will cause an annual increase of more than $16,000,000, including payroll taxes of 6 percent.

## Buffalo Electrochemical Seized by Treasury Dep't

*Buffalo, N. Y., Dec.* 22, 1941

Because of German interests in the business, the Treasury Department has assumed supervision of the Buffalo Electrochemical Company, Charles A. Buerk, president and treasurer, announced.

Majority control, Mr. Buerk said, is held in the United States, but German and Swiss interests own more than 25 percent of the outstanding stock. Mr. Buerk added that production will continue without interruption or curtailment. The company produces hydrogen peroxide, and ammonia persulphate.

## Pyrophyllite Use Freed by F.T.C.

*OPD Washington Bureau*
*December* 24, 1941

The R. T. Vanderbilt Company and the Standard Mineral Company, both of New York, have been ordered by the Federal Trade Commission to cease and desist from suppressing and destroying competition in the sale and distribution of pyrophyllite.

The Vanderbilt company owns a majority of the voting stock of the Standard company, which is also engaged in mining pyrophyllite, a hydrous silicate of aluminum, used extensively in the ceramic field, at Hemp, N. C. The commission finds that the Vanderbilt company in 1934 acquired, by assignment from Ira Elmer Sproat, a patent entitled "Earthenware Body," later renewed, and other patents covering earthenware bodies composed of pyrophyllite and other ingredients. According to findings, there is nothing in the Sproat patents giving exclusive right to the use of pyrophyllite in the manufacture of certain earthenware bodies, nor do the patents grant the exclusive

—*Continued on page* 46

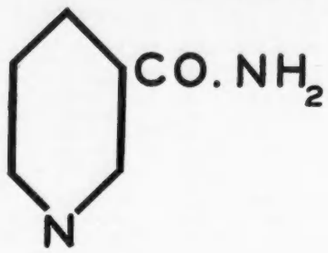
## F.T.C. Order Hits Sales Of Surgical Products

*OPD Washington Bureau*
*December* 23, 1941

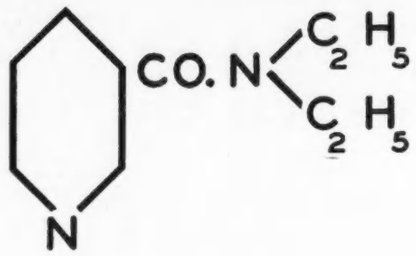
The Federal Trade Commission today ordered the A. S. Aloe Company, St. Louis, one of the country's largest retail dealers in surgical products, to cease and desist from price discriminations in violation of the Robinson-Patman act.

Commission findings are that the respondent, in purchasing a wide variety of surgical products from manufacturers, jobbers, importers and distributors, received various discriminatory prices. According to findings, the differentials between the prices paid by the respondent and by its competitors to various sellers for surgical products of like grade and quality have not been uniform on each surgical product, the prices paid by the respondent varying from approximately 10 percent to approximately 40 percent less than the prices certain of the respondent's competitors pay the sellers, depending upon the surgical product and the seller, or either of them.

# NICOTINAMIDE




# NICOTINIC ACID DIETHYLAMIDE




**Acetyl-p-aminophenyl Salicylate**

**Digitalin** *(by French Process)*

**High purity grade**

TRADE MARK

*Manufactured by*

## LEWISTOWN CORPORATION LABORATORIES

*Executive Offices:*

**221 West 57th Street, New York**

**Cable Address "Lewtown"**

# Current Market Quotations

## December 26, 1941

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Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes, trends, and resale prices are noted in the market reports, with other informative comment. The locations of the several reports is indicated on page 4.

## Defense Status of Materials

Application of SPAB regulations to materials listed below is indicated by superior figures as follows:—[1] Price Ceiling; [2] Price Suggestion or Agreement; [3] Full Priority Control; [4] Industry Control; [5] General Limitation Order; [6] Critical List (Army and Navy Munitions Board); [7] Allocation

### A

Acacia (see Gum, arabic).
Acetal, cbys., works....lb. 1.00 - 1.50
Acetaldehyde, 99%, dms., 55 and 110 gls., works..lb. .11 - —
5 and 10 gls., works....lb. .14 - —
Acetaldol (see Aldol).
Acetamide, CP, kgs., 5,000 lbs. a year, works..lb. .36 - —
200-lb. lots, works....lb. .38 - —
100-lb. lots, works....lb. .55 - —
5 to 50-lb. lots, works....lb. .70 - —
tech., kgs., 5,000 lbs. a year, works..lb. .28 - —
200-lb. lots, works....lb. .30 - —
100-lb. lots, works....lb. .45 - —
5 to 50-lb. lots, works....lb. .50 - —
Acetanilide, tech., cryst., bbls.lb. .29 - .31
powd., bbls....lb. .27 - .29
USP, cryst., bbls., 2,000-lb. lots, lb. .32 - —
smaller lots....lb. .33 - —
dms., 25-lb. lots....lb. .33 - —
kgs., 2,000-lb. lots....lb. .33 - —
smaller lots....lb. .34 - —
powd., bbls., 2,000-lb. lots..lb. .30 - —
smaller lots....lb. .31 - —
dms., 25-lb. lots....lb. .36 - —
kgs., 2,000-lb. lots....lb. .31 - —
smaller lots....lb. .32 - —
Acetoacetanilide, dms....lb. .47 - .65
Acetone, CP,[1,6] dms., c.l., dlvd.lb. .08¼- —
l.c.l., dlvd....lb. .09 - —
tanks, dlvd....lb. .07 - —
Methyl (see M).

* The term 'Eastern' territory means the States of New Mexico, Colorado, Wyoming, Montana and all States east thereof, and the term 'Western' territory shall mean all other States of the United States.

Acetonitrile, dms., works....lb. 1.00 - 2.00
Acetophenone, cns., dms....lb. 1.55 - 1.60
Acetophenetidin, bbls., kgs., 1,000 lbs..lb. 1.60 - —
50 lbs., dms....lb. 1.06 - —
25 lbs., dms....lb. 1.10 - —
Acid, abietic, dms., c.l., f.o.b. all points in U.S. E. of and including Kans., Neb., N.D., Okla., S.D., Tex. E. of Austin and Brownsville..lb. .08¾- —
Acetic,[1] com'l or redist., 28%, bbls..100 lbs. 3.18 - 3.43
cbys., cs....100 lbs. 3.68 - 3.93
56%, bbls....100 lbs. 5.18 - 5.43
cbys., cs....100 lbs. 5.68 - 5.93
70%, bbls....100 lbs. 6.19 - 6.44
cbys., cs....100 lbs. 6.69 - 6.94
80%, bbls....100 lbs. 6.91 - 7.16
cbys., cs....100 lbs. 7.41 - 7.66
glacial, nat., CP, cbys.100 lbs.14.25 -15.25
99.5%, bbls....100 lbs. 8.30 - 8.55
cbys. ....100 lbs. 8.80 - 9.05
tanks ....100 lbs. 7.25 - —
USP, cbys....100 lbs.11.00 -12.50
synth., 99.5%, al. dms., works. 100 lbs. 8.45 - 8.70
tanks, dlvd....100 lbs. 6.25 - —
USP XI, al. dms., works. 100 lbs.10.25 -11.00
CP, dms., works....100 lbs.13.50 -14.25
pure, 30%, bbls....100 lbs. 4.23 - 4.48
cbys., cs....100 lbs. 4.73 - 4.98
36%, bbls....100 lbs. 4.61 - 4.86
cbys., cs....100 lbs. 5.11 - 5.36
60%, bbls....100 lbs. 7.17 - 7.42
cbys., cs....100 lbs. 7.67 - 7.92
80%, bbls....100 lbs. 8.70 - 8.95
cbys., cs....100 lbs. 9.20 - 9.45

Acetic acid price differentials above are for c.l. and l.c.l. quantities, the prices apply delivered within the Metropolitan zones unless otherwise indicated in the above prices.

Acetic, anhydride,[2] dms., c.l., frt. alld..lb. .11½- —
l.c.l., dms., frt. alld....lb. .13 - —
Acetylsalicylic, special, USP, fine cryst., gran., 200-lb. bbls.lb. .45 - —
standard, USP, fine cryst., gran., 20 or 40 mesh, 200-lb. bbls..lb. .40 - —
powd., 90 mesh, 200-lb. bbls. lb. .40 - —
Adipic, fib. dms., works....lb. .31 - —
Anthranilic, refd., bbls....lb. 1.15 - 1.20
tech., bbls....lb. .75 - —
Arsenous, tech. (see Arsenic, White).
USP, powd., dms., kegs....lb. .20 - .22
Ascorbic, bots., dms....oz. 1.85 - 2.10
Battery, cbys., c.l., E. works. 100 lbs. 1.60 - —
l.c.l., 25 or more, E. works. 100 lbs. 1.85 - —
10-25, E. works....100 lbs. 1.95 - —
1-9, E. works....100 lbs. 2.55 - —
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs....lb. .44 - —
900 lbs. or less....lb. .47 - —
USP, bbls., 4,000 lbs. or more. lb. .54 - —
1,000 to 3,900 lbs....lb. .55 - —
900 lbs. or less....lb. .58 - .59
dms., 4,000 lbs. or more...lb. .55 - .56
1,000 to 3,900 lbs....lb. .56 - .57
99 lbs. or less....lb. .59 - .60
Acid, boric, tech., 99.5%, gran., bulk, frt. alld..ton.95.50 - —
bgs., c.l., frt. alld...ton.99.00 - —
ton lots, ex-whse...ton.111.00 - —
less than ton lots, ex whse..ton.121.00 - —
bbls., c.l., frt. alld..ton.108.00 - —
ton lots, ex whse..ton.120.00 - —
less than ton lots, ex whse..ton.125.00 - —
powd., bgs., c.l., frt. alld. ton.104.00 - —
ton lots, ex whse..ton.116.00 - —
less than ton lots, ex whse..ton.121.00 - —
bbls., c.l., frt. alld..ton.113.00 - —
ton lots, ex whse..ton.125.00 - —
less than ton lots, ex whse..ton.130.00 - —
USP $25 per ton higher.
Butyric, 99%, dms., c.l., S. Charleston, W. Va..lb. .22 - —
l.c.l., same basis....lb. .23 - —
tanks, same basis....lb. .21 - —
Broenner's, bbls....lb. 1.11 - —
Camphoric, cns....lb. 6.95 - 7.00
Capric, dms....lb. .19¾- .20¼
Caproic, dms., works....lb. .25 - .30
Caprylic, dms....lb. .27 - .27½
Castor oil, split, dms....lb. .18¼- .18¾
Chlorosulphonic, dms., c.l., wks. lb. .03 - —
5-drum lots, works....lb. .03¼- —
single drum....lb. .04½- —
tanks, works....lb. .02½- —
Chromic,[2,6] 99%, dms., c.l., dlvd. N. Y..lb. .16¼- —
l.c.l., 5 tons, dlvd. N.Y. lb. .16¾- —
smaller quantities, dlvd. N. Y..lb. .17¼- .18¼
Cinnamic, refd., bots....lb. 3.50 Nom.
Citric, cryst., gran., bbls., car lots..lb. .20 - —
10,000-lb. lots, one shipt. lb. .20½- —
smaller lots....lb. .21 - —
annydr. gran., dms., 10,000 lbs., one shipt..lb. .23 - —
smaller lots....lb. .23½- .26½

Citric acid quotations on powder are ½c. higher than on granular. Keg packing is ½c. higher than barrels. Prices are f.o.b. N.Y. Chicago and St. Louis deliveries are ½c. higher than N.Y.

Cleve's, bbls....lb. .65 - —
Coconut oil, dist., dms....lb. .16¾- .17¼
Cottonseed oil, dist., dms....lb. .13¾- .14¼
tanks ....lb. .13¼- —
Cresylic (coaltar),[4,7] high-boil 50%, 210°-215°, dms., c.l., works, frt. equald..gal. .81 - .84
l.c.l., same basis....gal. .83 - .86
special blends (50, 210°-215°), dms., c.l., works frt. equald..gal. .81 - .84
l.c.l., same basis....gal. .83 - .86
low-boil (50%, 204°-206°), dms., c.l., works, frt. equald..gal. .81 - .84
l.c.l., same basis....gal. .83 - .86
special blends (50%, 204°-206°), dms., c.l., works, frt. equald..gal. .81 - .84
l.c.l., same basis....gal. .83 - .86
imported, pale, dms...gal. No price
Diethylbarbituric (see Barbital).
Formic, dom., 90%, cbys., c.l., works..lb. .10½- —
l.c.l., 25 cbys. and over..lb. .11 - —
1-24 cbys....lb. .11¼- —
Fumaric, tech., special, bbls., ton lots..lb. .27 - —
smaller lots, bbls., dms...lb. .28 - .31
Gallic, tech., bbls....lb. 1.10 - 1.13
NF VI, bbls., 200 lbs., 5 or more..lb. 1.27 - —
smaller lots....lb. 1.30 - —
fib. dms., 25 lbs....lb. 1.34 - —
Gamma, bbls....lb. .65 - —
Gluconic, tech., 50%, bbls., 500 lbs..lb. .12 - —
100-lb. kgs....lb. .15 - —
25 or 50-lb. demij....lb. .21 - .23
5-lb. bots....lb. .20 - —
H. bbls....lb. .45 - —
Hydriodic, 45-47%, cbys....lb. 2.42 - 2.44
5-lb. bots....lb. 2.57 - —
57%, bots....lb. 2.90 - —
Hydrobromic, 10% dilute, cbys., lb. .20 - —
concentrated, 34%, cbys....lb. .35 - —
Hydrochloric (see Muriatic).
Hydrocyanic, cyls., works....lb. .80 - 1.00
Hydrofluoric, 30%, bbls....lb. .06 - .06½
rubber, dms....lb. .08 - .08½
48%, lead, cbys....lb. .12 - —
rubber, dms....lb. .11 - —
52%, lead, cbys....lb. .13 - —
rubber, dms....lb. .12 - —
60%, lead, cbys....lb. .14 - —
rubber, dms....lb. .13 - —
Hydrofluosilic, 30-33%, 120 lbs., bbls..lb. .09 - .09½
Acid, hypophosphorus, USP, 30%, djns..lb. .75 - .80
Lactic, tech., dark, 22%, bbls., c.l., works..100 lbs. 2.50 - —
l.c.l., works....100 lbs. 2.75 - —
cbys., works...100 lbs. 3.75 - —
44%, bbls., c.l., works.... 100 lbs. 5.50 - —
l.c.l., bbls., works.... 100 lbs. 5.75 - —
cbys., works...100 lbs. 6.75 - —
light, 22%, bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - —
cbys., works...100 lbs. 4.75 - —
44%, bbls., c.l., works.... 100 lbs. 6.50 - —
l.c.l., works....100 lbs. 6.75 - —
cbys., works...100 lbs. 7.75 - —
50%, edible, 20 or more, cbys..lb. .10½- .11½
5 to 19 cbys....lb. .11 - .12
1 to 4 cbys....lb. .11½- .12½
plastic grade, bbls., cbys., 20 or more..lb. .12¼- .13½
5 to 10, cbys....lb. .12¾- .13¾
1 to 4, cbys....lb. .13¼- .14½
80%, bbls., cbys., 5 or more.lb. .21 - .22
1 to 4, cbys....lb. .21½- .22½
USP, XI, 85%, cbys....lb. .50 - .53
USP, VIII, 75%, cbys....lb. .48 - .51
Lauric, dist., tech., dms....lb. .18¼- .18¾
Laurent's, bbls....lb. .45 - —
Linseed oil, light, dms....lb. .15¼- .16
Maleic, powd., dms....lb. .30 - —
anhydride, dms., c.l....lb. .25 - —
l.c.l. ....lb. .26 - —
Malic, powd., kegs....lb. .47 - —
Mandelic, dms., 1,000 lbs....lb. 2.05 - —
smaller lots....lb. 2.10 - 2.15
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit....lb. .0085- .009
Molybdic, kegs, works....lb. .95 - 1.10
Monochloracetic, tech., bbls..lb. .15 - .18
Monosulphonic, bbls....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., 25 and over E. works..100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —
tanks, works....100 lbs. 1.05 - —
20°, cbys., c.l., E. works. 100 lbs. 1.75 - —
l.c.l., 25 and over, works. 100 lbs. 2.00 - —
10 to 24, works...100 lbs. 2.10 - —
1 to 9, works...100 lbs. 2.70 - —
tanks, works....100 lbs. 1.15 - —
22°, cbys., c.l., E. works. 100 lbs. 2.25 - —
l.c.l., 25 and over, works. 100 lbs. 2.50 - —
10 to 24, works...100 lbs. 2.60 - —
1 to 9, works...100 lbs. 3.20 - —
tanks, works....100 lbs. 1.65 - —
CP, dealers, cbys....lb. .06½- —
6-lb. bots....lb. .17½- —
consumers, cbys....lb. .08 - —
6-lb. bots....lb. .19 - —
Myristic, dist., dms....lb. .18 - .18¼
Naphthenic, dom., acidity 220-230, dms., c.l., works..lb. .10 - —
l.c.l., works....lb. .11 - —
tanks, works....lb. .09 - —
235-245 acidity, dms., c.l., works..lb. .12 - —
l.c.l., works....lb. .13 - —
tanks, c.l., works....lb. .11 - —
Nicotinic, 100-lb. cns....lb. 7.15 - —
50-lb. cns....lb. 7.25 - —
25-lb. cns....lb. 7.30 - —
5-lb. bots....lb. 7.46 - —
1-lb. bots....lb. 7.50 - —
Nicotine, amide, 25-lb. lots...lb.18.00 - —
5-lb. lots....lb.18.25 - —
Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25 and over, E. works..100 lbs. 5.25 - —
10 to 24, works...100 lbs. 5.35 - —
1 to 9, works...100 lbs. 5.95 - —
38°, cbys., c.l., E. works. 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
l.c.l., 25 and over, E. works..100 lbs. 5.75 - —
10 to 24, works...100 lbs. 5.85 - —
1 to 9, works...100 lbs. 6.45 - —
40°, cbys., c.l., E. works. 100 lbs. 6.00 - —
l.c.l., 25 and over, E. works..100 lbs. 6.25 - —
10 to 24, works...100 lbs. 6.35 - —
1 to 9, works...100 lbs. 6.95 - —
42°, cbys., c.l., E. works. 100 lbs. 6.50 - —
l.c.l., 25 and over, works. 100 lbs. 6.75 - —
10 to 24, works...100 lbs. 6.85 - —
1 to 9, works...100 lbs. 7.45 - —
CP, USP, dealers, cbys....lb. .11¼- —
7-lb. bots....lb. .21½- —
consumers, cbys....lb. .13 - —
7-lb. bots....lb. .23 - —
Oleum (see sulphuric fuming).
Oxalic, dom., bbls., c.l., works. lb. .11¼- —
10,000 lbs. or over....lb. .11¼- —
smaller quantities....lb. .12¾- .14½
Acid, palm oil, white, dist., dms..lb. .13 - .13½
tanks ....lb. .12½- —
Paraminobenzoic, cns....lb. 1.40 - —
Paranitrobenzoic, cns....lb. .72 - —
Phenylacetic, bots....lb. 1.85 - 1.90
Phosphoric, 50%, pure food grade, c.l., bbls., works, frt. equald.... 100 lbs. 4.00 - 4.25
cbys., works, frt. equald. 100 lbs. 4.35 - 4.60
l.c.l., 10 or more, works, frt. alld.100 lbs. 5.25 - 6.25
1 to 9 cbys., works, frt. alld..100 lbs. 6.25 - 7.25
tankwagons, dlvd., N.Y., Phila. Met. area.... 100 lbs. 4.00 - —
75% pure food grade, c.l., bbls., works, frt. equald. 100 lbs. 4.75 - 5.00
cbys., works, frt. equald. 100 lbs. 5.10 - 5.35
l.c.l., 10 or more, works, frt. alld.100 lbs. 7.00 - 8.50
1 to 9 cbys., works, frt. alld..100 lbs. 8.00 - 9.50
tankcars, works, frt. equald..100 lbs. 4.00 - 4.25
tankwagons, dlvd., N.Y., Phila. Met. area.... 100 lbs. 4.75 - —
USP, 85%, s. g., 1.710 cbys., 180 lbs..lb. .12 - —
50%, s. g., 1.347, cbys., 70 lbs..lb. .10¼- —
dms., 25 lbs....lb. .13 - —
10%, dilut., cbys., djns...lb. .07 - .07¼
Picramic, kgs....lb. .65 - .70
Picric, bbls....lb. .35 - —
Propionate, synth., pure, 55-gal. dms., returnable, works..lb. .14 - —
tanks, works....lb. .11 - —
Pyrogallic, tech., lump, powd., bbls..lb. 1.45 - —
cns. ....lb. 1.63 - —
USP, cryst., cns....lb. 2.10 - —
resub., cns....lb. 2.60 - —
Pyroligneous, bbls., dlvd. E.gal. .25 - —
Ricinoleic, com'l, split (see Acid, castor oil, split).
tech., dms., works....lb. .22 - .27
Salicylic, tech., bbls....lb. .33 - —
USP, bbls....lb. .35 - .38
Sebasic, tech., bbls., works..lb. .32 - —
Soybean oil, dist., dms....lb. .16¼- .17
Stearic, dist., double pressed, bgs., dlvd..lb. .14¼- .15¼
single pressed, bgs., dlvd..lb. .13¾- .14¾
triple pressed, bgs., dlvd...lb. .17 - .18
saponif., double pressed, bgs., dlvd..lb. .14¼- .15¼
triple pressed, bgs., dlvd..lb. .17¼- .18¼
Succinic, bbls....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l., 25 and over, works, 100 lbs. 1.50 - —
10 to 24, works...100 lbs. 1.60 - —
1 to 9, works...100 lbs. 2.20 - —
tanks, E., works....ton.13.00 - —
66°, cbys., c.l., E. works, 100 lbs. 1.50 - —
l.c.l., 25 and over, works, 100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —
tanks, E., works....ton.16.50 - —
98°, tanks, works....ton.17.50 - —
CP, USP, dealers, cbys....lb. .06½- —
9-lb. bots....lb. .15½- —
consumers, cbys....lb. .08 - —
9-lb. bots....lb. .17 - —
fuming, 20%, tanks, E. works. ton.19.50 - —
Tannic, tech., bbls., dms....lb. .71 - .73
USP, fluffy, bbls., 1,000-lb. lots..lb. 1.33 - —
100-lb. lots....lb. 1.35 - —
25-lb. lots....lb. 1.38 - —
powd., bbls., 1,000 lbs....lb. 1.13 - —
smaller lots....lb. 1.15 - —
Tartaric, USP, dom., cryst., gran., powd., bbls., 10,000 lbs. or more, one shipt...lb. .70¼- —
smaller quantities....lb. .71 - —
kgs....lb. .71½- —
Tobias, bbls....lb. .55 - .60
Trichloracetic, bots....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkg....lb. 2.94 - 3.10
pure, 100-lb. pkg....lb. 2.86 - —
Aconite, leaves, bls....lb. 1.20 - 1.25
Root, bls....lb. 1.25 - 1.30
Aconitine, amorph., bots....oz.33.00 -38.00
15-gr. vials....vial. 1.00 - —
cryst., bots....oz.42.00 -43.00
15-gr. vials....vial. 1.60 - —
Acrylonitrile, dms., c.l....lb. .34½- —
5,000 lbs. or more....lb. .35 - —
1 ton to 4,999 lbs....lb. .35½- —
1 dm. to 1 ton....lb. .36 - —
tank cars....lb. .34 - —

## Adeps Lanae—Barytes

Adeps lanae, anhyd., dms.....lb. .30 - .32
hyd., dms.....lb. .29 - .31
Agar, Kobe No. 1, strip.....lb. 3.00 - 3.25
gran., fib. dms.....lb. 3.10 - 3.40
powd., fib. dms.....lb. 3.10 - 3.45
Kobe No. 3, strip, bls.....lb. No prices
Agaric, white, bls.....lb. No stocks
Albumen, blood, dark, flake, c.l., f.o.b. Chicago, frt. alld..lb. .12½- —
ton lots, frt. alld.....lb. .14 - —
bgs., same basis.....lb. .15 - .20
light, dom., flake, dms., f.o.b. Chicago, frt. alld..lb. .65 - .75
import, bgs.....lb. No prices
Egg, ed., dom., cryst., bbls..lb. 1.80 - 1.85
powd., dms., bbls.....lb. 1.85 - 1.90
import, cs.....lb. 1.80 - 1.85
Alcohol, amyl (see also Fuse. oil, refd.), ex pentane, dms., c.l., frt. alld..lb. .131 - —
l.c.l., frt. alld.....lb. .141 - —
tanks, frt. alld.....lb. .121 - —
normal, dms., l.c.l., works..lb. .27 - —
Tertiary, refd., dms., l.c.l., frt alld..lb. .09 - —
Benzyl, cns.....lb. .65 - .75
drums.....lb. .68 - —
Butyl, normal,[1] dms., c.l., frt. alld..lb. .11 - .11¾
l.c.l., frt. alld.....lb. .11¼ - .12¼
tanks, frt. alld.....lb. .10 - .10¾

* The term 'Eastern' territory means the States of New Mexico, Colorado, Wyoming, Montana, and all States east thereof, and the term 'Western' territory shall mean all other States of the United States.

secondary, dms., c.l., frt. paid E. of Miss. R..lb. .09½- —
l.c.l., same terms.....lb. .10 - —
tanks, same terms.....lb. .08½- —
tertiary, denaturing, c.l., dms. lb. .12½- —
l.c.l., dms.....lb. .13 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs..lb. 1.50 - —
500 lbs.....lb. 1.70 - —
100 lbs.....lb. 1.80 - —
25 lbs.....lb. 1.90 - —
5 lbs.....lb. 2.00 - —
Cinnamic, bots.....lb. 2.00 - 2.60
Denatured,[1,*,6] CD14, dms., c.l., divd., E..gal. .33½- —
l.c.l., divd., dms.....gal. .43½- —
tanks, E., divd.....lb. .32½- —

Prices for territories other than E. of Rockies are 4c. per gal. in tanks, and 5c. per gal. in dms., higher. Tankcar sales require written authorization by Alcohol Tax Unit.

SD1 190 pf., bbls., c.l., E. works..gal. .35½- —
19 bbls., E. works..gal. .37½- —
1 to 18 bbls., E. works..gal. .40½- —
dms., c.l., E. works..gal. .33½- —
19 dms., E. works..gal. .35½- —
1 to 18 dms.....gal. .38½- —
tanks, E. works.....gal. .27½- —

Anhydrous 3c. per gal. higher.

SD2B, dms., c.l., works, E. gal. .30½- —
19 dms., works, E...gal. .32½- —
1 to 18 dms., works, E. gal. .35½- —
tanks, E. works.....gal. .24½- —
SD23G, works, E., c.l., dms., gal. .36½- —
19 dms.....gal. .38½- —
1 to 18 dms.....gal. .41½- —
tanks .....gal. .30½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal., in drums, higher.

SD23H, works, c.l., dms..gal. .34 - —
19 dms.....gal. .36 - —
1 to 18 dms.....gal. .39 - —
tanks .....gal. .28 - —

SD 29, denatured with acetaldehyde, dms., c.l., E., works..gal. .31½- —
l.c.l., 19 or more, E., works..gal. .33 - —
1-18, E., works.....gal. .38 - —
tanks, E., works.....gal. .25½- —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those for SD2B, plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works.....gal. .34 - —
20 dms. to c.l.....gal. .36 - —
1 to 19 dms.....gal. .39 - —
tanks, E. works.....gal. .28 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., divd..lb. .11½- .13
l.c.l., divd.....lb. .12 - .13½
tanks, divd.....lb. .10¾- .12
tech., dms., c.l., divd.....lb .11 - .12
l.c.l., divd.....lb. .11¼- .12½
tanks, divd.....lb. .10 - .11

Ethyl, 190 pf., ex. molasses, dms., c.l..gal. 7.92½- —
19 dms.....gal. 7.96 - —
5 to 8 dms.....gal. 7.99 - —
1 to 4 dms.....gal. 7.99 - —
tanks .....gal. 7.86½- —
absolute, dms., c.l.....gal. 8.37½- —
19 dms.....gal. 8.41 - —
5 to 18 dms.....gal. 8.44 - —
1 to 4 dms.....gal. 8.44 - —

Ethyl alcohol in bbls. 3c. higher than dms.

Grain alcohol 25c. gal. higher.

Ethylhexyl, dms., c.l., works..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Furfuryl, tech., dms., works, dms., c.l., 33,000 lbs., works, lb. .20 - —
l.c.l., 500 lbs. and more, works..lb. .25 - —
Isoamyl (see Carbinol Isobutyl).
Isobutyl, refd., dms., works..lb. .0980- —
tanks, same terms.....lb. .0760- —
Isopropyl,[2] refd., 91%, dms., 5 gals., f.o.b. dest..gal. .66½- —
55 gals., c.l., same basis, gal. .40½- —
l.c.l., same basis...gal. .43½- —
tanks, frt. alld.....gal. .34 - —
99%, dms., 5 gals., same basis..gal. .65 - —
55 gals., c.l., same basis, gal. .44 - —
l.c.l., same basis...gal. .47 - —
tanks, same basis.....gal. .37½- —
Methyl (see Mechanol).
Phenylethyl, bots., cns.....lb. 2.10 - 2.50
Polyvinyl, type A, fiber-pack, 2,000 lbs. and over, f.o.b. cars, Niagara Falls..lb. .65 - —
less than 2,000 lbs.....lb. .70 - —
type B, fiber-pack, 2,000 lbs. and over, same basis..lb. .69 - —
less than 2,000 lbs.....lb. .65 - —
Propyl, normal, dms., works, gal. .67 - .70
Octyl (see ethylhexyl alcohol).
Tetrahydrofurfuryl, dms., contract, f.o.b. Waverly, N.Y.lb. .44 - —
450-lb. lots, same basis...lb. .50 - —
cns., f.o.b. Cedar Rapids, Ia., lb .55 - —
Aldehol, denat., grade., dms., tanks, works..gal. .70 - .73
Aldehyde, bisulphite, bbls., works, lb. .17 - —
smaller containers.....lb. .20 - —
Aldol, 55 and 110 gal. dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13 - —
5-10-gal. dms., works...lb. .15 - —
Aletris root, bgs.....lb. .55 - .56
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .90 - 1.40
Allspice, Mexican, bgs.....lb. .13 - .13½
Alpha tocopherol, ampules, per gram. 1.00 - 1.50
Aloe, Cape, cs.....lb. .16 - .19
Curacao, cs.....lb. .68 - .70
gourds, bbls.....lb. .60 - .65
Socotrine, kgs.....lb. .58 - .60
Aloin, 140-lb. bbls.....lb. 5.45 - —
100-lb. kgs.....lb. 5.47 - —
25-lb. fib. dms.....lb. 5.54 - —
Alphanaphthol, bbls.....lb. .52 - —
Alphanaphthylamine, bbls.....lb. .52 - —
Althea root, whole, bbls.....lb. .45 - .46
Alum, ammonia, burnt, USP. bbls., kgs..lb. .16 - .18
gran., bbls., works...100 lbs. 4.00 - —
divd., N. Y., Phil...100 lbs. 4.00 - —
lump, bbls., works....100 lbs. 4.25 - —
divd., N. Y., Phil..100 lbs. 4.25 - —
powd., bbls., works....100 lbs. 4.40 - —
divd., N. Y., Phil..100 lbs. 4.40 - —

Ammonia alum prices are for contract and open market; f.o.b. Phila.; frt. equalized with Marcus Hook, Boston, Atlanta, or Joliet; rail or water rates, whichever is lower. L.c.l. quantities must carry l.c.l. rate applying; for truck or ex warehouse deliveries all metrop. zones (except N. Y.) add l.c.l. rail or water rate, whichever is lower, from shipping or equalization point, divd., N.Y. price apply to truck or ex warehouse.

Potash, gran., bbls., works, 100 lbs. 4.25 - —
divd., N. Y., Phila....100 lbs. 4.25 - —
lump, bbls., works....100 lbs. 4.50 - —
divd., N. Y., Phila....100 lbs. 4.50 - —
powd., bbls., works....100 lbs. 4.65 - —
divd., N. Y., Phila....100 lbs. 4.65 - —

Potash alum prices on same basis as those for ammonia alum.

Chrome, bbls.....lb. .12½- .15
Soda, bbls., c.l., works...100 lbs. 3.25 - —
l.c.l., divd.....100 lbs. 4.25 - 5.00
Alumina acetate, basic, powd., insoluble, bbls., 1 to 9, divd.....lb. .40 - —
smaller containers.....lb. .50 - —
solut., 24%, l.c.l., 10 or over, divd...lb. .09½- —
1 to 9, divd.....lb. .10 - —
normal, solut., 20%, bbls., l.c.l., 10 or over, divd., lb. .08½- —
1 to 9, divd.....lb. .09 - —
Chloride, anhyd., com'l, dms. (extra), 45,000 lbs. and over, works..lb. .08 - —
12,000 to 40,000 lbs., works..lb. .09 - —
1,100 to 11,000 lbs., works, lb. .10 - —
140 to 375 lbs., works.lb. .11 - —
100 lbs. or less, works.lb. .12 - —
cryst., com'l, dms., c.l., works, lb. .06 - —
l.c.l., works.....lb. .05¼- .06¾
solution, 32 deg., cbys., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03¼- —
Formate, 30% solut., bbls., c.l., divd..lb. .13 - —
l.c.l., divd.....lb. .15 - —
Hydrate, heavy, bbls., c.l., works..lb. .0340- —
l.c.l., bbls., works....lb. .04 - —
bgs., c.l., works.....lb. .0310- —
light, bgs., c.l., divd.....lb. .14 - —
l.c.l., bgs., divd.....lb. .14½- —
bbls., c.l., divd.....lb. .14¼- —
l.c.l., bbls., divd.....lb. .15 - —
Oleate, dms., contract.....lb. .17¼- —
open order.....lb. .17¼- .20
Palmitate, precip., bbls.....lb. .25 - .26
Resinate, precip., dms., divd.lb. .15 - —
Stearate, precip., bbls., ctns., c.l...lb. .23 - —
l.c.l .....lb. .24 - —
Sulphate, com'l, bgs., c.l., works, frt. equaled..100 lbs. 1.15 - 1.25
l.c.l., works, frt. equald.. 100 lbs. 1.40 - 1.50
bbls., c.l., works....100 lbs. 1.35 - 1.45
l.c.l., works, frt. equaled, 100 lbs. 1.60 - 1.70
iron free, bgs., c.l., works, 100 lbs. 1.75 - 1.85
l.c.l., works.....100 lbs. 2.00 - 2.10
bbls., c.l., works....100 lbs. 1.95 - 2.05
l.c.l., works.....100 lbs. 2.20 - 2.30
Aluminum, 48-99%,[2,3,4] c.l....lb. .15 - —
l.c.l .....lb. .16 - —
paste, lining, extra fine, dms., 500 lbs..lb. .56 - —
standard, dms., 2000 lbs...lb. .38 - —
Powder, lining, extra fine, dms., 200 lbs...lb. .93 - —
standard, dms, 200 lbs...lb. .59 - —
litho, lining, dms., 200 lbs..lb. .57 - —
unpolished, dms., 200 lbs..lb. .36 - —
varnish, standard, dms., 200 lbs..lb. .40 - —

Aluminum paste and powder prices are 5c. per lb. higher for less than 200 lbs.; for containers, smaller than drums, prices are 1c. per lb. higher for 100 lbs.; 1½c. per lb. higher for 50 lbs.; 3c. per lb. higher for 10 lbs.; 5c. per lb. higher for 2 lbs.; 8c. per lb. higher for 1 lb.; and 12c. per lb. for ½ lb. Transportation allowed East of Mississippi.

Ambergris, gray, tins.....os.17.00 -18.00
Aminomethylpropanol, dms., wks., lb. .50 - —
5 and 10-gal. cans, works..lb. .60 - —
Aminopyrine, 100-lb. dms.....lb. 4.00 - —
5-lb. bots.....lb. 4.25 - —
Ammonia aldehyde, dms., works, lb. .65 - .70
Anhydrous[5], fertilizer, f.o.b. Belle, W. Va., frt. equal with Hopewell, Va..ton.90.00 - —
refrigeration[5], tanks, works, lb. .05 - —
pure, cycls., divd., met. N.Y., lb. .16 - —

Anhydrous ammonia in cylinders is quoted on a nationwide schedule of delivered and stock point prices in all States.

Aqua, 26°, cbys.....lb. .05¼- —
dms., c.l.....lb. .02¼- —
l.c.l .....lb. .02½- —
tanks (on $NH_3$ content), f.o.b. works..lb. .04 - —
Benzoate, dms., kgs., 4,000 lbs. or more..lb. .42 - —
1,000 lbs. to 3,900 lbs....lb. .44 - —
900 lbs. or less.....lb. .47 - —
Bicarbonate, dms., divd. Met. N.Y..lb. .0564- .0614
Bichromate, bbls.....lb. .30 - .32
Bifluoride, bbls.....lb. .15½- .18
Borate, bbls., kgs.....lb. .15 - .16
Bromide, gran., bbls.....lb. .31 - .35
bxs.....lb. .34 - .38
kegs.....lb. .32 - .36
Ammonia, carbonate, lump, dms., divd. Met. N. Y..lb. .06¼- .09¼
cns., same basis.....lb. .14¼- —
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., 225-lb. bbls....lb. .12 - .13
100-lb. kgs.....lb. .15 - —
Citrate, 250-lb. bbls.....lb. .75 - —
100-lb. dms.....lb. .80 - —
25-lb. dms.....lb. .82 - —
25-lb. dms.....lb. .84 - .86
Fluoride, bbls.....lb. .18 - .20
Hydroxide (see Ammonia, aqua).
Hypophosphite, dms.....lb. 1.25 - 1.27
jars.....lb. 1.35 - —
Iodide, 5-lb. bots.....lb. 3.71 - —
jars.....lb. 3.65 - —
Linoleate, 80%, anhyd., bbls., lb. .12 - —
Molybdate, kgs., works.....lb. 1.05 - 1.20
Nitrate, tech., bgs., works, 100 lbs. 4.35 - —
bbls., works.....100 lbs. 4.55 - —
Oleate, dms.....lb. .14 - —
Oxalate, neutral, powd., bbls., kgs..lb. .23 - .29
Perchlorate, kgs.....lb. .55 - .65
Persulphate, kgs, dom.....lb. .21 - .23
Phosphate, dibasic, NF V, bls. lb. .37 - —
kgs.....lb. .39 - —
tech., bbls., c.l.....lb. .07¼- —
l.c.l .....lb. .08¾- .09¼
monobasic, crystal (fert. grade) 11% N, 48% phos. p, bulk, f.o.b. E. works...unit-ton. No prices
pure, bbls.....lb. .40 - .45
tech., bbls., c.l.....lb. .07¼- —
l.c.l .....lb. .08¾- .09¼
Salicylate, USP, kgs.... ....lb. 1.15 - 1.20
Silicofluoride, bbls.....lb. .15 - —
Stearate, anhydrous.....lb. .24½- —
paste .....lb. .06½- —
Sulphate[3], dom., bulk, c.l., contr., f.o.b. cars, ports, July-Dec. shipt..ton.29.00 - —
spot, same basis.....ton.30.00 - —

Ammonia sulphate prices are $1 per ton less than above prices f.o.b. cars nearest inland producing oven.

Sulphide, liquid, 40-45%, basis, 100%, dms., c.l., works, lb. .07½- —
l.c.l., divd.....lb. .15 - —
tanks, divd.....lb. .07½- —
red, 48%, cbys., works.....lb. .08 - —
dms., works.....lb. .06 - —
yellow, 53%, cbys., works..lb. .08 - —
dms., works.....lb. .06 - —
Sulphocyanide, C.P., dms....lb. .45 - .55
tech., kgs.....lb. .40 - —
Ammoniac, gum (see Gum, ammoniac).
sal, gray, dom., bbls., c.l. 100 lbs. 5.50 - 5.75
l.c.l .....100 lbs. 6.00 - 6.70
white, gran., dom., bbls., c.l., works...100 lbs. 4.45 - —
l.c.l., same basis...100 lbs. 5.15 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., divd..lb. .12½- .14½
l.c.l., divd.....lb. .13 - .15
tanks, divd.....lb. .11¼- .13½
cns., works.....lb. .18 - .19
ex Pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .13¼- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis.....lb. .12¾- —
Alcohol (see Alcohol amyl).
Butyrate, dms., 50 gal., returnable..lb. .75 - —
Caporate, cns.....lb. 2.75 - —
Chlorides, normal, dms., works, lb. .56 - —
small lots, works.....lb. .68 - —
mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether, dms., c.l., works...lb. .09½- —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .08½- —
Naphthalenes, mixed, crude, l.c.l., dms., works..lb. .14 - —
refd., l.c.l., dms., works..lb. .16 - —
Nitrite, bots.....lb. 1.80 - 1.85
Mercaptan, dms., l.c.l., works, lb. 1.10 - —
Oleate, dms., l.c.l., works...lb. .31 - —
Salicylate, 5-lb. bots.....lb. .63 - .65
cns..lb. .55 - .60
Stearate, dms., l.c.l., works..lb. .32½- —
Amylene, dms., c.l., works...lb. .102 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09 - —
Anethol, bots.....lb. 1.25 - 1.60
cans .....lb. 1.15 - 1.50
Angelica root, dom., bls.....lb. .65 - 1.75
import., natural, bls.....lb. 1.60 - 1.65
Angostura, bark, bls.....lb. .26 - .29
Anilin oil, dms.....lb. .15 - —
l.c.l .....lb. .16 - —
tanks .....lb. .14½- —
Salt, dms., works.....lb. .22 - .24
Anise, Cyprus, bgs.....lb. .39 - .41
Mexican, fair, bgs.....lb. .33 - .38
Spanish, bgs.....lb. .40 - .41
Star .....lb. .32 - .33
Turkish, bgs.....lb. .37 - .38
Anisic aldehyde, bots.....lb. 2.75 - 2.80
Annatto paste, bxs.....lb. .34 - .39
seed, bgs.....lb. .06 - .06½
Anthracene, 80-85%, bbls., wks., lb. .55 - —
90%, bbls., works.....lb. .65 - —
Anthraquinone, 99.5%, subl., bbls., lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal,[2,4,6] spot.....lb. .14 - —
Needle, brown, Bolivian, 67%, lb. .16½- .18¼
Chinese, black, 70%.....lb. .19 - .22
crude, bbls.....lb. .17 - —
Oxide, bgs., c.l.....lb. .15 - —
l.c.l .....lb. .16½- —
Salt, 65%, dms., divd. E. of Miss. River..lb. .36 - —
bbls., same basis.....lb. .34 - —
Antipyrene, bbls., kgs., ton lots, lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.20
Apomorphine, bots.....os.23.20 -23.70
Archil extract, bbls.....lb. .26 - —
Areca nuts, pow., bbls.....lb. .15 - .16
Arecoline hydrobromide, bots..oz.11.25 -11.50
Argols, test 70% to 85%, basis 100%, 100 kgm., purity, f.o.b. Spanish ports...100 kilos.105.00 - —
Arnica flowers, bls.....lb. 4.00 - 4.25
Root, bls.....lb. 1.45 - 1.50
Arrowroot, St. Vincent, powd., bgs..lb. .10½- .10¾
bbls .....lb. .09¾- .09½
Arsenic, metal, lump, cs.....lb. No prices
Chloride (arsenous), cns.....lb. 4.85 - —
Iodide (arsenous), 5-lb. bots..lb. 5.58 - —
jars .....lb. 5.48 - —
Red, import, cs.....lb. No prices
Trioxide (see Acid, arsenous).
White, powd., kgs., c.l.....lb. .04 - —
l.c.l .....lb. .04¾- —
Asafetida, cs.....lb. .45 - .80
powd., bbls., bxs.....lb. .68 - .73
Asbestine (see Talc, N.Y. fibrous).
Asbestos fiber, 5M, bgs., c.l. (20 tons), Canad. mines..ton.42.50 - —
5R, bgs., c.l. (20 tons), Canad. mines..ton.40.00 - —
6D, bgs., c.l. (20 tons), Canad. mines..ton.30.00 - —
7D, bgs., c.l. (20 tons), Canad. mines..ton.26.00 - —
7F, bgs., c.l. (20 tons), Canad. mines..ton.24.00 - —
7H, bgs., c.l. (20 tons), Canad. mines..ton.20.00 - —
7K, bgs., c.l. (20 tons), Canad. mines..ton.17.50 - —
7M, bgs., c.l. (20 tons), Canad. mines..ton.15.00 - —
Asphaltum, Manjak No. 10, crude, 20 tons, f.o.b. plant..lb. .04½- —
smaller lots, f.o.b. plant, lb. .05½- —
process form, bgs., 20 tons, f.o.b. plant..lb. .05 - —
smaller lots, f.o.b. plant, lb. .06 - —
California, dms., c.l., f.o.b. N.Y. ton.20.00 - —
l.c.l., f.o.b. N. Y.....ton.36.50 - —
Cuban A, bgs., c.l., f.o.b. N.Y., ton.60.00 - —
l.c.l., f.o.b. N. Y.....ton.90.00 - —
B, bgs., c.l., f.o.b. N. Y..ton.55.00 - —
l.c.l., f.o.b. N. Y.....ton.85.00 - —
Egyptian, bgs., c.l., f.o.b. N. Y., lb. .12 - —
l.c.l., f.o.b. N. Y.....lb. .15 - —
Gilsonite, brilliant black, selects, bgs., c.l., Western shipt. point..ton.82.90 - —
seconds, bgs., c.l., Western shipt. points..ton.35.90 - —
selects, bgs., c.l., Western shipt. points..ton.30.50 - —
l.c.l., f.o.b. N. J. or N. Y., whse..ton.56.00 - —
jet, bgs., c.l., Western shipping points..ton.30.50 - —
Mexican, Texas, dms., c.l., ref., ton.19.00 - —
l.c.l., refinery.....ton.21.00 - —
tanks, refinery.....ton.16.00 - —
Petroleum, cut-back, bbls., l.c.l., E. cst., refinery..gal. .12 - —
dms., c.l., E. cst., refinery, gal. .12 - —
tanks, Calif., refinery...ton.13.50 -14.00
East Coast, refinery...gal. .06 - .06¾
Ill., Ind., refinery.....gal. .06¼- —
N. Orleans, refinery....gal. .06 - —
Atropine, bots.....oz.27.00 - —
Sulphate, bots.....os.21.00 - —

# B

Balm of Gilead buds, bgs.....lb. .55 - .60
Barbasco root (see cube root).
Barberry bark, bgs.....lb. .55 - .60
Tree bark, vls.....lb. No stocks
Barbital, cs.....lb. 2.50 - 2.60
sodium, cs.....lb. 2.75 - —
Barium carbonate, natural, 99% thru 200 mesh, bgs., c.l., works...ton.43.00 - —
precip., bgs., c.l., works...ton.55.00 - —
l.c.l., works.....ton.60.00 - —
bbls., c.l., works.....ton.60.00 - —
l.c.l., works.....ton.65.00 - —
Sulphur-free, c.l., works..ton.60.00 - —
l.c.l., works.....ton.65.00 - —
Chlorate, kgs.....lb. .50 - —
Chloride, CP, cryst., bbls....lb. .25 - .27
pure, bbls., kgs.....lb. .10 - .13
tech., dom., cryst., bgs., c.l., Zone 1, divd., New England States, N. Y., N. J., Pa., Md., Va., Ohio, Mich., Ind., Wisc., Ill., Ky., and principal cities on west bank of Miss., north of Miss., north of Ark. line .....ton.77.00 - —
bbls., same basis...ton.79.00 - —
l.c.l., bgs., same basis, ton.90.00 - —
bbls., same basis..ton.92.00 - —
Zone 2, bgs., c.l., divd., Tenn., N.-S. Carolina, Ga., Ala., Miss., Fla., ton.81.00 - —
bbls., same basis..ton.83.00 - —
l.c.l., bgs., same basis, ton.94.00 - —
bbls., same basis...ton.96.00 - —
Zone 3, bgs., c.l., Minn., Ia., Mo., Col., N. Mex., Idaho, Utah, Ariz., ton.97.00 - —
bbls., same basis..ton.89.00 - —
l.c.l., bgs., same basis, ton.100.00 - —
bbls., same basis..ton.102.00 - —
Zone 4, bgs., c.l., divd., Wash., Ore., Calif., Nev..ton.83.00 - —
bbls., same basis..ton.85.00 - —
l.c.l., bgs., same basis, ton.96.00 - —
bbls., same basis..ton.98.00 - —
Dioxide, dms., c.l., works...lb. .10 - —
l.c.l., same basis.....lb. .12 - .16
Fluoride, bbls.....lb. .18 Nom.
Hydrate (see Hydroxide).
Hydroxide, bbls., works.....lb. .06 - .07
Iodide, bots.....lb. 4.77 - —
jars .....lb. 4.62 - —
Monoxide (see Oxide).
Nitrate, cks.....lb. .10½- .12¾
Oxide, ungrd., dms., c.l., works, lb. .06 - —
l.c.l., same basis.....lb. .10 - .12
grd., dms., l.c.l., works....lb. .11 - .16
Peroxide (see Dioxide).
Silicofluoride, bbls.....lb. .15 - .17
Sulphate, tech. (see Barytes and blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs .....lb. .12 - —
Barytes, dom., floated, bbls., c.l., contr., St. Louis..ton.25.15 - —
spot, same basis...ton.25.15 -27.65
l.c.l., contr., same basis, ton.26.15 - —
spot, same basis...ton.26.15 -28.65
paper bags, c.l., contr., St. Louis..ton.22.85 - —
spot, same basis...ton.22.85 -25.35
l.c.l., contr., same basis, ton.23.85 - —
spot, same basis...ton.23.85 -26.35
ex whse., New York..ton.31.50 - —
Southern, off color, bgs., mines, ton.17.50 - —
95.75%, bgs., mines.....ton.18.00 - —
ore, bulk, mines.....ton.8.00 - —
German, grd., bbls., c.l., dock, t.a..ton. No prices
l.c.l., ex whse.....ton. No prices
ungrd., bulk, c.l., ex dock.ton. No prices
Italian, grd., bbls., c.l., ex dock, t.a..ton. No prices
l.c.l., ex whse.....ton. No prices

Bauxite, bulk, mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Bay Rum, tax extra, import, bbls..gal. .77½- .78½
Bayberry bark, bgs.....lb. .13 - .14
Belladonna leaves, bls.....lb. 3.45 - 3.50
Root, bls.....lb. 2.00 - 2.05
Bentonite, 200 mesh, bgs., Wyo., works..ton.11.00 - —
325 mesh, bgs., Wyo., works, ton.16.00 - —
Benzaldehyde, tech., cbys., dms., lb. .45 - .55
N.F. VI, dms., 50 to 100 lbs..lb. .85 - —
5 to 25 lbs.....lb. .90 - .95
Benzene (see Benzol).
Benzidin base, bbls.....lb. .70 - —
Benzocaine, cns.....lb. 3.00 - —
Benzol, 2, 90%, dms., returnable, works..gal. .20 - —
tankcars, frt. alld. E. of Omaha, gal. .15 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .15 - —
Benzophenone, dms.....lb. 1.20 - 1.25
Benzoyl chloride, cbys.....lb. .23 - .28
Peroxide, pure, gran., fib. ctns., works..lb. 1.95 - —
Benzyl acetate, f.f.c., cns.....lb. .59 Nom.
dms.....lb. .55 Nom.
Alcohol (see Alcohol, benzyl).
Benzoate, a.m.a., f.f.c., cns..lb. .95 Nom.
dms.....lb. .90 Nom.
Chloride, cbys., frt. equald..lb. .22 - .24
Cinnamate, cns.....lb. 5.50 Nom.
Formate, cns.....lb. 3.50 - 3.75
Isoeugenol, bots.....lb. 9.50 - —
Propionate, bots.....lb. 2.25 Nom.
Salicylate, bots.....lb. 1.80 Nom.
Benzylidineacetone, bots.....lb. 2.00 - 2.10
Berberine bisulphate, cns.....lb.22.50 -38.50
Hydrochloride, cns.....lb.22.50 -38.50
Sulphate, cns.....lb.22.50 -38.50
Berberis root, bls.....lb. .10 - .11
Betanaphthol, sublim., kgs....lb. .55 - —
tech., bbls. c.l., works.....lb. .23 - —
l.c.l., bbls., works.....lb. .24 - —
Benzoate, fib. dms.....lb. 2.50 - —
kgs.....lb. 2.70 - —
Betanaphthylamine, tech., kgs.lb. .51 - —
Beth root, bls.....lb. .35 - .40
Bismuth chloride, 5-lb. bots...lb. 3.00 - —
jars.....lb. 2.85 - —
Citrate, USP, VIII, 5-lb. bots. lb. 2.86 - —
jars.....lb. 2.75 - —
Hydroxide, 5-lb. bots.....lb. 3.46 - —
cns.....lb. 3.35 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., 5-lb. bots....lb. 1.45 - —
cns.....lb. 1.30 - —
Oxychloride, 5-lb. bots.....lb. 3.19 - —
cns., kgs.....lb. 3.10 - —
Subbenzoate, 5-lb. bots.....lb. 3.51 - —
fib. dms.....lb. 3.40 - —
Subcarbonate, bots., cns.....lb. 1.59 - 1.85
175-lb. bbls.....lb. 1.50 - —
X-ray, 5-lb. bots.....lb. 2.79 - —
fib. dms.....lb. 2.73 - —
Subgallate, bots., cns.....lb. 1.49 - 1.72
fib. dms.....lb. 1.40 - —
Subiodide, bots.....lb. 4.24 - —
fib. dms.....lb. 4.13 - —
Subnitrate, powd., bots., cns.lb. 1.29 - 1.57
250-lb. bbls.....lb. 1.20 - —
Bismuth, subsalicylate, 60-66%, bots..lb. 2.59 - —
bbls., fib. dms.....lb. 2.50 - —
Sulphocarbolate, 5-lb. bots...lb. 3.76 - —
fib. dms.....lb. 3.65 - —
Trioxide, powd., 5-lb. bots...lb. 3.76 - —
cns.....lb. 3.65 - —
Bismuth ammonia, citrate, USP, powd., 25-lb. dms..lb. 3.40 - —
5-lb. cns.....lb. 3.45 - 3.50
Black,[2] acetylene, c.l., works, duty paid..lb. .14 - —
Bone, 1A, c.l.....lb. .17 - —
l.c.l.....lb. .17½- —
3, c.l.....lb. .12 - —
l.c.l.....lb. 12½- —
4, c.l.....lb. .11 - —
l.c.l.....lb. .11½- —
5, c.l.....lb. .08½- —
l.c.l.....lb. .09 - —
6, c.l.....lb. .08½- —
l.c.l.....lb. .09 - —
7, c.l.....lb. .11½- —
l.c.l.....lb. .12 - —
8, c.l.....lb. .12½- —
l.c.l.....lb. .13 - —

Bone black prices are for barrels or bags, freight allowed East. Pacific Coast prices are 1½c. per lb. higher, ex dock or ex whse.

Carbon, regular, uncompressed, bgs., c.l., f.o.b. plants..lb. .03425- —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .07½- —
dlvd.....lb. .07½- —
beads, compressed, bgs., c.l., f.o.b. plants..lb. .03350- —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .07 - —
dlvd.....lb. .07 - —
bulk, cars, c.l., f.o.b. plants, lb. .03150- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bbls., l.c.l., works..lb. .06½- —
Lamp, dom., 1, ctns., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
2, ctns., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .10 - —
2A, ctns., c.l., works.....lb. .11 - —
l.c.l., works.....lb. .12 - —
3, ctns., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .14 - —
4, ctns., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - —
5, ctns., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .18 - —
6, ctns., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .25 - —
7, ctns., c.l., works.....lb. .34 - —
l.c.l., works.....lb. .35 - —
Mineral, vine type, bbls., l.c.l., f.o.b. works..lb. .0434- —
Vine, A, bbls., works or N. Y., lb. .04½- .05
B, bbls., works or N. Y..lb. .05½- —
kegs, f.o.b. N. Y.....lb. .06 - —
dms., c.l., frt. alld.....lb. .09½ Nom.

Black dyes are listed under Dyes.

Black Haw root bark, bls.....lb. .40 - .45
Tree bark, bls.....lb. .18 - .19
Black Indian hemp root, bls..lb. .22 - .23
Blanc fixe, dry, by-product, bgs., c.l., works..ton.60.00 - —
l.c.l., works.....ton.67.50 - —
direct process, bgs., c.l., works, frt. equaled..ton.70.00 - —
l.c.l., same basis.....ton.80.00 -95.00
pulp, 66⅔%, bbls., c.l., works, ton.40.00 - —
l.c.l., works.....ton.46.50 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.25 - 3.10
l.c.l., works.....100 lbs. 2.50 - 3.35
Blood, dried, dom., 16-16½ ammon., bgs., f.o.b. N. Y., unit-ton. 4.75 - —
high-grade, grd., 16-17 ammon, bulk, f.o.b. Chicago, unit-ton. 5.00 - —
import, bgs., c.i.f. ports, shipt..unit-ton. 4.65 - —
soluble (see Albumen, blood).
Bloodroot, lbs.....lb. .38 - .40
Blue,[2] alkali, toner, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. .85 - .90

Alkali blue toner prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Bronze, bbls., same basis, contracts..lb. .36 - —
Celestial, bbls.....lb. .10 - .12
Chinese, bbls., same basis, contracts..lb. .36 - —
Cobalt, genuine, 1-kilo pkg..lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, bbls., f.o.b. works, frt. alld..lb. 3.30 - 3.75
Milori, bbls., same basis, contracts..lb. .36 - —
Molybdated, Victoria, same basis, contracts..lb. 3.15 - —
Blue, peacock, concentrated, same basis, contracts..lb. .75 - —
regular, same basis, contracts, lb. .54 - —
Potash, dom., bbls., same basis, contracts..lb. .42 - —
Prussian, bbls., same basis, contracts..lb. .36 - —
Tungstated, peacock, kgs....lb. 4.00 - —
Victoria, kgs.....lb. 3.30 - —
methyl violet, kgs.....lb. 2.10 - —
Ultramarine, dry or pulp, cobalt grades, bbls., works, frt. equald..lb. .22 - .24
jobbing grades, bbls., same basis..lb. .11 - —
regular grades, bbls., same basis..lb. .16 - .27

Blue, ultramarine, dlvd., ex whse., is 1c. higher; Pac. Coast, ex whse., 2c. higher; 100-lb. kgs., 1c. above bbls.; 25-lb. boxes, 5c. above bbls.

Victoria, ink toner, bbls., same basis alkali toner..lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 1.93 - —

Blue dyes are listed under Dyes.

## Bauxite—Brown, Sap

Blue flag root, bls.....lb. .15 - .20
Blue mass, USP, cns., tubs....lb. 1.67 - 1.84
powd., bots., cns., dms.....lb. 1.70 - 1.84
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone, raw, dom., 4½% ammon., 50% phos., bgs., f.o.b. Chicago..ton.39.00 -40.00
import, bgs., c.i.f. ports..ton.37.50 - —
Bone meal, steamed, dom., 3% ammon., 50% phos., bgs., f.o.b. Chicago..ton.38.00 -39.00
import, bgs., c.i.f. ports..ton.37.50 - —
phosphate, precip. (see Calcium phosphate dibasic, precip.).
steamed, dom., 1¼% ammon., 60% phos., bgs., f.o.b. Chicago..ton.40.00 -41.00
import, 1% ammon., 65-70% phos., bgs., c.i.f. ports..ton.42.00 - —
Boneset leaves, bls.....lb. .08½- .09
Borage flowers, bls.....lb. .40 - .45
Borax, tech., 99½% gran., bulk, c.l., frt. alld...ton.41.50 - —
bgs., c.l., frt. alld....ton.45.00 - —
ton lots, ex whse....ton.56.00 - —
less than ton lots, ex whse..ton.61.00 - —
bbls., c.l., frt. alld....ton.54.00 - —
ton lots, ex whse....ton.65.00 - —
less than ton lots, ex whse..ton.70.00 - —
powd., bgs., c.l., frt. alld. ton.50.00 - —
ton lots, ex whse....ton.61.00 - —
less than ton lots, ex whse..ton.66.00 - —
bbls., c.l., frt. alld....ton.59.00 - —
ton lots, ex whse....ton.70.00 - —
less than ton lots, ex whse..ton.75.00 - —

USP $15 per ton higher.

Bordeaux mixture, dms., c.l., dealers..lb. .11 - —
l.c.l., dealers, dms..lb. .11½- —

Bordeaux mixture prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. and over, no trucking or freight allowances for works or warehouse pickups.

Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purif., cs., 1,000 lbs., frt. alld. E. of Rockies..lb. .25 - .30
single pkg., same basis..lb. .30 - .35
Bromoform, USP, 100-lb. lots, bots..lb. 1.50 - —
cbys.....lb. 1.42 - —
Bromstyrol.....lb. 3.50 - 3.75
Bronze powder, aluminum (see A).
Gold, litho, cns., dms., over 10 lbs..lb. .60 - .65
moulding, cns., dms., over 10 lbs..lb. .80 - 1.00
printing ink, cns., dms., over 10 lbs..lb. .85 - 1.20
radiator, cns., dms., over 10 lbs..lb. .45 - .50
Broomtops, bls.....lb. .15 - .16
Brown,[2] iron oxide, pure precip., cks., f.o.b. N.Y..lb. .12 - —
Metallic, iron oxide, bbls., wks. lb. .02¾- —
paper bgs., c.l., works.....lb. .0260- —
Sap, crystals, dom., works...lb. .12 - —
powdered.....lb. .13 - —


SPOT DELIVERIES

Sodium Hydrosulphite

CAUSTIC POTASH ★ NICKEL SULPHATE ★ SODIUM BISULPHITE
WHITE HEAVY CALCINED MAGNESIA ★ BICHROMATES
WHITE CALCINED MAGNESITE ★ ★ ZINC SULPHATE

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## Brown, Sienna—Cresol

Brown, Sienna, burnt, American, bbls., f.o.b. works..lb. .03½- .06
Italian, Amer. replacement type, bbls., f.o.b. works. lb. .08¾- .10¾
raw, American, bbls., f.o.b. works..lb. .03¼- .05¾
Italian, Amer. replacement type, bbls., f.o.b. works. lb. .08 - .10
Umber, American, bbls., works. lb. .03¾- —
Turkey-type, bbls., l.c.l., f.o.b. Bethlehem, Easton, Pa., N.Y...lb. .04¾- —
St. Louis.....lb. .05¼- —
ex car, Los Angeles....lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05½- —
ex whse., Los Angeles. lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05¾- —
Boston .....lb. .04¾- —
Chicago, Indianapolis, New Orleans..lb. .05¼- —
Kansas City.....lb. .05¾- —
Minneapolis .....lb. .0535- —
Pittsburgh .....lb. .05 - —
Vandyke, regular, bbls., l.c.l., works..lb. .09 - —
special .....lb. .12 - —
Brucine, 100 oz., cns.....oz. .35 - —
Sulphate, 100 oz., cns.....oz. .30 - —
Bryonia root, bls.....lb. 1.25 - 1.30
Buchu leaves, bls.....lb. .74 - .75
Buckthorn bark, true, bls....lb. .80 - .85
cut and sifted, bbls.....lb. .85 - .90
Berries, bgs.....lb. 1.10 - 1.15
Burdock root, bls.....lb. .40 - .45
Burgundy pitch, dom., dms...lb. .05½- .06
Butternut bark, bls.....lb. .07 - .08
Butyl acetate[3], norm., dms., c.l., frt. alld..lb. .11 - .12
l.c.l., frt. alld.....lb. .11½- .12½
tanks, frt. alld.....lb. .10 - .11
tankwagons, frt. alld....lb. .10½- .11½
secondary, dms., c.l., frt. pd. E. of Miss. R..lb. .09½- —
dms., l.c.l., same terms..lb. .10 - —
tanks, same terms.....lb. .08½- —
Alcohol (see Alcohol).
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .17½
tanks, works.....lb. .14½- —
Carbinol, secondary, l.c.l., dms., works..lb. .60 - —
Chloride, normal, dms., c.l., works..lb. .25 - —
l.c.l. .....lb. .28 - —
Ether (see under Ether).
Lactate, dms.....lb. .23½- —
Propionate, dms., dlvd.....lb. .16½- .17
tanks .....lb. .15½- —
Stearate, dms.....lb. .32½- —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., frt. alld. Met. N.Y...lb. .60 - —
Butane[2], industrial grade, tanks, group 3..gal. .02¼- —

# C

Cadmium, bromide, 25-lb. jars, 50 lbs. or more..lb. 1.65 - 1.66
single jars.....lb. 1.70 - —
5-lb. bots.....lb. 1.84 - 1.91
Iodide, 5-lb. bots.....lb. 4.25 - —
25-lb. cans.....lb. 4.09 - —
Lithopone (see Yellow).
Metal, [2,4,6] pat., shapes, cs., dlvd..lb. .95 - —
ingots or sticks.....lb. .90 - —
Red (see Red).
Selenide (see Red).
Sulphite (see Yellow).
Caffeine, 10,000 lbs. or more, 100 lb. dms..lb. 2.60 - —
25 lb. dms.....lb. 2.63 - —
10 lb. cns.....lb. 2.65 - —
2,000 lbs. or more, 100-lb. dms. lb. 2.65 - —
25 lb. dms.....lb. 2.68 - —
10 lb. cns.....lb. 2.70 - —
1,000 lbs. or more, 100-lb. dms., lb. 2.70 - —
25 lb. dms.....lb. 2.73 - —
10 lb. cns.....lb. 2.75 - —
100 lbs. or more, 100-lb. dms.lb. 2.80 - —
25 lb. dms.....lb. 2.83 - —
10 lb. cns.....lb. 2.85 - —
less than 100 lbs., 10-lb. cns., lb. 3.15 - —
Citrated, bots.....lb. 2.30 Nom.
Hydrobromide, bots.....lb. 5.29 - 5.37
Calabar beans, bgs.....lb. .25 - .30
Calamus root, peeled, N. F., cs., lb. No stocks
bleached, bls.....lb. No stocks
dom., natural, bls.....lb. .40 - .45
Calcium acetate, bgs., dlvd., 100 lbs. 3.00 - 4.00
Arsenate, bgs., c.l.....lb. .06½- .07½
l.c.l. .....lb. .06¾- .07¾
Calcium arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 90 lbs. or over; no frt. or truck allowances for plant or whse. pick-up.
Bromide, 100 lbs., works, frt. equald..lb. .65 - —
50 lbs., works.....lb. .67 - —
25 lbs., works.....lb. .70 - —
Carbide, dms., c.l., dlvd. 100 lbs. 4.75 - —
l.c.l., f.o.b. warehouse. 100 lbs. 4.85 - —
Carbonate (see Chalk and Whiting).
Chloride, flake, paper bgs., 77-80%, c.l., dlvd.....ton.18.50 -35.00
l.c.l., 15 tons, dlvd....ton.21.50 -25.50
5 ton lots.....ton.28.50 -41.00
liquor, basis 40%, tanks, wks., ton. 7.50 - —
solid, dom., 73-75%, dms., c.l., dlvd..ton.18.00 -34.50
l.c.l., 15 ton, dlvd....ton.21.45 -25.45
5 ton lots.....ton.28.45 -40.95
Calcium chloride c.l. prices for flake in burlap paper-lined bags, $2.50 per ton over paper bags, and drums $2.50 per ton over paper bags.
Gluconate, USP, gran., 150-lb. bbls..lb. .52 - —
dms. .....lb. .57 - .59
cns. .....lb. .70 - —
Powd., 2c. per lb. lower.
Glycerophosphate, fib. dms.. 1,000-lb. lots..lb. 1.25 - —
100-lb. lots.....lb. 1.40 - —
cns., 25 lbs.....lb. 1.65 - —
Hypophosphite, cns.....lb. .62 - .65
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, USP, bbls., 200 lbs..lb. .27 - .28
Mandelate, dense, dms.....lb. 2.05 - 2.15
fluffy, dms.....lb. 2.05 - 2.15
Calcium, nitrate, fertilizer grade, bgs., to fert. mfrs., ex vessel Atlantic or Gulf ports..ton. No prices
tech., bbls., ton lots, works, lb. .12½- .13
Palmitate, bbls.....lb. .28 - .29
Phosphate, dibasic, precip., 38-40% $P_2O_5$, bgs., c.l.f. Atlantic ports, shipt..unit-ton. No prices
feeding grade, bgs., f.o.b. works..ton.75.00 - —
food grade, f.o.b. works, 10 bbls. and over..lb. .07 - —
5 to 9 bbls., same basis. lb. .09 - —
1 to 4 bbls., same basis. lb. .10 - —
medicinal, bbls.....lb. .11½- .12
dms. .....lb. .12½- .18
monobasic, cryst., bgs., c.l., works, frt. equald lb. .05¾- —
5 tons and over, bgs., same basis..lb. .06 - —
less than 5 tons, same basis. lb. .06½- —
tribasic, c.l., bbls., works. lb. .0635- —
l.c.l., bbls.....lb. .0705- .0785
Resinate, precip., bbls., 1 ton. lb. .13 - —
smaller lots.....lb. .14 - —
Stearate, precip., bbls., ctns., ton..lb. .26 - —
smaller quantities.....lb. .27 - —
Sulphate (see Gypsum).
Sulphide, 70%, CaS, bgs.. c.l., works..ton.46.00 - —
80%, CaS, bgs., c.l., works.ton.51.00 - —
luminous, dom., tins, works. 100 lbs. 1.25 - —
Sulphocarbolate, 200-lb. bbls..lb. .48 - —
Calendula flowers, bls.....lb. .85 - .90
Calomel, bbls., fib. dms., kgs., 50 lbs. or more..lb. 2.95 - —
Camphor, natural, powd., cs...lb. 1.60 - 1.65
slabs, cs.....lb. 1.60 - 1.65
tablets, tin.....lb. 1.70 - 1.75
synth., dom., tech., bbls., contract, 2,000 lbs. or more, works..lb. .36 - —
smaller lots, works..lb. .41 - —
USP, or import, gran., powd., bbls., 2,000-lb. lots..lb. .63 - —
1,000-lb. lots.....lb. .64 - —
smaller lots.....lb. .65 - —
tablets, 2,000-lb. lots....lb. .76 - —
1,000-lb. lots.....lb. .77 - —
smaller lots.....lb. .78 - —
Monobromate, bulk, 100-lb. lots. lb. 2.40 - —
25 to 50-lb. lots.....lb. 2.50 - —
Canada balsam (see Fir, balsam).
Canary seed, Argentine, bgs...lb. .03¾- .04
Morocco, bgs.....lb. .06¼- .06½
Canella alba bark, bls.....lb. .45 - .50
Cantharides, Chinese, cs.....lb. 1.50 - 1.60
powd., bxs.....lb. 1.75 - 1.85
Russian, cs.....lb. 4.50 Nom.
powd., bxs.....lb. 5.50 Nom.
Capsicum (see Pepper, red).
Caraway, Dutch, bgs.....lb. 1.15 - 1.20
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller quantities, works..lb. .80 - —
98%, dms., ton lots, works...lb. .75 - —
smaller quantities, works..lb. .85 - —
Carbinol, butyl, norm. (see Amyl alcohol, normal).
Diethyl, l.c.l., works.....lb. .60 - —
Dimethylethyl, l.c.l., works...lb. .60 - —
Isobutyl, c.l., dms., frt. alld..lb. .225 - —
l.c.l., same basis.....lb. .235 - —
tanks, same basis.....lb. .215 - —
Carbon bisulphide, 55 gal., dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R.....lb. .06 - —
l.c.l., same basis.....lb. .06¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls .....lb. .06 - .08
Tetrachloride,[2] Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .78 - —
l.c.l., frt. alld.....gal. .80 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .80 - —
l.c.l., frt. alld.....gal. .87 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.04 - —
l.c.l., frt. alld.....gal. 1.14 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .94 - —
l.c.l., frt. alld.....gal.1.00 - —
5 or 10-ga. dms., c.l., frt. alld..gal. 1.17 - —
l.c.l., frt. alld.....gal. 1.27 - —
Zone 4, 52½-gal. dms., c.l.gal. .83 - —
l.c.l. .....gal. .90 - —
5 or 10-gal. dms., c.l.....gal. 1.07 - —
l.c.l. .....gal. 1.17 - —

All prices on carbon tetrachloride are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. cars, L. A. Cal.; S. F. Cal.; Portland, Ore., and Seattle, Wash. All packages are inclusive and not returnable. Zone 1 includes the following States:—Me., N. H., Vt., Mass., Ct., R. I., N. Y., N. J., Pa., Md., Del., Va., W. Va., N. C., Tenn., Ga., Ind., Mich., Ill., Wis., Minn., Ia., Mo., also the river towns of Burlington, Ia., and Kansas City, Kan. Zone 2 includes N. D., S. D., Neb., Kan., Okla., Ark., La., Miss., Ala., Ga., S. C. and Fla. Zone 3 includes that portion of Montana east of Billings and the states of Wyoming, Colo., N. M. and Texas. Zone 4 includes Wash., Idaho, Montana, Ore., Cal., Nev., Utah and Arizona.

Cardamom, bleached, cs.....lb. 1.60 - 1.70
decorticated, cs.....lb. 1.30 - 1.40
green, Ceylon, bgs.....lb. .96 - .98
Carob bean flour (see Gum, Locust bean).
Carvel, bots.....lb. 4.00 - 4.25
Cascara sagrada bark, bulk....lb. .20 - .21
Case-hardening mixtures, 30% lump, dms., l.c.l..lb. .09 - —
Casein, dom., 20-30 mesh, bgs., c.l., dlvd..lb. .31 - —
5 tons, works.....lb. .31½- —
smaller lots, works...lb. .31½- —
80-100 mesh, c.l., dlvd....lb. .31½- —
5 tons, works.....lb. .31¾- —
smaller lots, works.....lb. .32 - —
Import, Argent., 20-30 mesh, bgs., c.l., c.l.f..lb. .27 - —
80-100 mesh, bgs., c.l., c.l.f..lb. .27½- —
French, 30 mesh, bgs., c.l., duty paid..lb. No prices
New Zealand, 20-30 mesh., c.l., bgs., duty paid..lb. No prices
Cassia, Batavia, No. 1, thin quill, bls.....lb. .36 - .37
No. 1, regular, bls.....lb. .35 - .36
srortstick, bls.....lb. .33 - .34
broken, bls.....lb. .30 - .31
China, buds, bgs.....lb. .32 - .34
Rolls, select, bls.....lb. .32 - .33
broken, extra, bls.....lb. .30 - .31
Saigon, No. 1, 4-10-4, bls....lb. .62 - .64
10-6-2, bls.....lb. .63 - .65
all thin, bls.....lb. .68 - .69
Cassia fistula, bakts.....lb. .18 - .19
Castoreum, nat., cns.....lb.12.50 -15.00
Synth, bots.....lb.19.00 - —
Castor beans, Brazilian, ship't, c.&f., N.Y., long ton.78.00 -79.00
Oil (see Oil, castor).
Pomace, dom., 6½% ammon., bgs., c.l., works..ton.15.50 -16.00
import, bgs., c.i.f. ports, shipment..ton. No prices
Celery seed, French, bgs.....lb. .90 - .95
Indian .....lb. .59 - .60
Celluloid scrap (see Pyroxylin scrap).
Cellulose, acetate, flake, gran., frt. alld..lb. .30 - —
Acetate-butyrate, high (36.5% butyryl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld. lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs., works.....lb. .48 - —
medium (15.5 or 17.0%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkgs., works.....lb. .46 - —
Acetate-propionate, high (31.5% propionly content), 100-lbs. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs. works.....lb. .48 - —
Triacetate, flake, frt. alld....lb. .30 - —
Cerium hydrate, dms., works..lb. .60 - —
oxalate, USP, bbls., works..lb. .35 - —
kgs., works.....lb. .37 - —
Chalk, precip., papermakers, bgs., c.l., works..ton.32.50 - —
rubbermakers, bgs., c.l., works, ton.30.00 - —
other industries, and paints, bgs., c.l., works..ton.40.00 - —
drugs, dentifrices and cosmetics, c.l., spot..lb. .02½- —
Chamomile flowers, Hungarian, type, cs..lb. .80 - .85
Roman, bls.....lb. 3.25 Nom.
Charcoal, softwood, gran., bgs., c.l., dlvd., Ala., Del., Ga., Ky., Md., Miss., N. J., N. Y., N. C., S. C., Tenn., Va., W. Va..ton.35.40 - —
Colo. .....ton.32.00 - —
Conn., Me., Mass., N. H., R. I., Vt..ton.35.80 - —
Ill. (except river point), Minn., Neb., Wis..ton.27.00 - —
Indiana .....ton.31.00 - —
Ill. (river points), Mo., Okla., Tex. (except El Paso), Ia..ton.25.00 - —
Kansas, El Paso, Tex., ton.26.00 - —
Michigan .....ton.32.80 - —
Ohio .....ton.32.80 - —
Penn. .....ton.34.80 - —
Utah .....ton.36.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, clarif., 25% tan., bbls., c.l., works..lb. .0275- —
tanks, works.....lb. .0225- —
Chillies (see Pepper, red).
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works....ton.10.00 -16.00
bulk, c.l., works..ton. 7.60 - —
200 mesh, bgs., c.l., works..ton. 8.50 - —
l.c.l., works....ton. 9.50 -15.50
wet-grd., silk-bolt, 99.9%, 325 mesh, bulk, c.l., works.ton. 9.50 - —
paper bgs., c.l., works, ton.12.50 - —
import, white, lump, bulk, c.l., ex dock, Balto., Boston, Norfolk Phila..ton.18.60 -23.00
powd., cks., l.c.l., ex whse., ton.45.00 - —
Chloral hydrate, jars, 1,000 lbs.lb. .93 - 1.02
500 lbs.....lb. .96 - 1.05
100 lbs.....lb. .98 - 1.07
25 lbs.....lb. 1.00 - 1.09
1-10 lbs.....lb. 1.05 - 1.12
dms., 1,000 lbs.....lb. .90 - —
500 lbs.....lb. .93 - —
100 lbs.....lb. .95 - —
Chlorinated rubber, standard, c.l., ctns., works...lb. .32 - —
100 lbs., ctns.....lb. .33 - —
smaller lots.....lb. .38 - —
Chlorine,[2,5] liq., cyls., c.l., dlvd., N.Y...lb. .05¼- —
contracts, dlvd., N. Y...lb. .05½- —
l.c.l., dlvd. N. Y.....lb. .07¼- —
tanks, single units, works, frt. equald..100 lbs. 1.75 - —
multiple unit, 3 or over, works, frt. equald.100 lbs. 2.00 - —
2, works, frt. equald., 100 lbs. 2.50 - —
1, works frt. equald., 100 lbs. 3.00 - —
Chloroform, tech., 650-lb. dms.lb. .20 - —
100 lb. dms.....lb. .22 - —
50-lb. dms.....lb. .23 - —
USP, 650-lb. dms.....lb. .30 - —
100-lb. dms.....lb. .32 - —
50-lb. dms.....lb. .33 - —
Chlorpicrin, com'l, 180-lb. cyls., frt. alld..lb. .80 - —
100-lb. cyls., frt. alld.....lb. .85 - —
25-lb. cyls., works.....lb. 1.00 - 1.15
1-lb. bot., case 2 works, lb. 1.25 - —
Chrome acetate, powd., 24%, bbls., lb. .22 - —
solut., 8¼%, cs., bbls.....lb. .07¾- .08½
Cake, bulk, c.l., works.....ton.16.00 - —
Chrome, green (see Green, chrome).
Oxide (see Green, chrome).
Sulphate, pearls, dms., 100 lbs., lb. .40 - —
powd., dms., 100 lbs.....lb. .45 - —
scale, dms., 100 lbs.....lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, 5-lb. bot.....lb. 5.00 - —
Cinchona bark, quill, USP, 10 in., medium, cs..lb. .85 - .90
20 in., thick, cs.....lb. .85 - .90
20 in., medium, cs.....lb. .85 - .90
USP, broken quill, red, bgs..lb. .19 - .20
yellow, bgs.....lb. .19 - .20
Cinchonidine, small crys., cns., 100 ozs..oz. .89 - —
Sulphate, N.F., cans., 100 ozs.oz. .83 - —

Cinchonidine buyers must pay a surcharge of 8½c. per oz. to cover present war risk insurance, higher ocean freight rates and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchonine, small crys., cns., 100 ozs..oz. .62 - —
large cryst., cns., 100 ozs.oz. .66 - —
Sulphate, N.F., cns., 100 ozs.oz. .42 - —

Cinchonine buyers must pay a surcharge of 8½c. per oz. to cover present war risk insurance, higher ocean freight rates and other expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchophen, USP, 25-lb. fib. dms., lb. 3.55 - 3.60
1 and 5-lb. bots.....lb. 3.70 - 3.80
100 lbs., dms.....lb. 3.50 - —
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, 90-100% pure, cbys., cns..lb. 1.25 - 1.60
Cinnamon, Ceylon, 2 bls.....lb. .29 - .30
3 bls.....lb. .28 - .29
Citral, bots, cns.....lb. 3.00 - 4.00
Citrine ointment, jars.....lb. .98 - 1.00
Citronellal, bots., dms.....lb. 1.50 - 2.25
Citronellol, bots., dms.....lb. 1.75 - 2.00
Clove, Amboyna, bgs.....lb. .40 - .41
Zanzibar .....lb. .18¾- .18¾
Clover tops, red, bgs.....lb. .35 - .40
dom., bgs.....lb. .27 - .29
Coaltar, coal-gas, crude, bbls., c.l., works..bbls. 7.50 - 7.75
l.c.l., works.....bbl. 8.25 - 8.50
tanks, works.....gal. .07½- .09
refd., bbls., c.l., works....bbl. 8.00 - 8.25
l.c.l., works.....bbl. 8.75 - 9.00
tanks, works.....gal. .08¼- .10
water-gas, crude, dms., c.l., works..dm. 7.50 - —
l.c.l., works.....dm. 8.25 - —
l.c.l., works.....dm. 8.75 - —
refd., dms., c.l., works...dm. 8.00 - —
Cobalt acetate,[7] bbls., kgs., dlvd. lb. .83¾- —
Carbonate,[7] powd., bgs., works, lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
Hydrate,[7] bbls.....lb. 2.04 - —
Linoleate, paste, 5%, dms...lb. .31 - —
solid, 8½%, dms.....lb. .42 - —
Oleate, bbls.....lb. .25 Nom.
Oxide,[7] black, kgs.....lb. 1.84 - —
Resinate, fused A. bbls.....lb. .18½- —
1 %, cobalt oxide, bbls....lb. .13 - —
2 %, cobalt oxide, bbls....lb. .14 - —
3½%, cobalt oxide, bbls....lb. .17½- —
precip., dms., dlvd.....lb. .34 - —
Sulphate,[7] dms.....lb. .65 - —
Cocaine, hydrochloride, 100 ozs., cns...oz. 9.75 - —
Cochineal, gray, bgs.....lb. .37 - .38
Teneriffe, silver, bgs.....lb. .38 - .39
Cocoa butter,[1] bulk, f.o.b., shipping point..lb. .25½- —
Cocillana bark, bgs.....lb. .20 - .21
Codeine, cns., 100 ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs.oz.10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls.....lb. .07 - .08
Blue, root, bls.....lb. .07 - .08
Colchicine, bots., cns.....oz.58.00 -63.00
Colchicum seed, bgs.....lb. 6.00 - 6.25
Collodion, USP, dms., 325 lbs..lb. .15 - —
cns., 25 lbs.....lb. .19 - .20
flexible, USP, dms., 325 lbs..lb. .17 - —
cns., 25 lbs.....lb. .21 - .22
Colocynth pulp, bls.....lb. .90 - .95
Colombo root, bls.....lb. .20 - .22
Coltsfoot leaves, bgs.....lb. .74 - .75
Condurango bark, bgs.....lb. .10 - .11
Conium leaves, bls.....lb. .30 - .32
Copaiba, balsam, Para, cns....lb. .32 - .33
S. A., USP, cns.....lb. .34 - .35
Copper acetate, normal, bbls., dlvd..lb. .24 - —
smaller containers, dlvd..lb. .26 - —
Carbonate, 52-54%, bbls.....lb. .18 - .20¼
Chloride, anhyd., bbls.....lb. .19½- —
cryst. .....lb. .13½- .14½
Cyanide, tech., bbls.....lb. .34 - .38
Iodide, bots.....lb. 5.15 - 5.19
Metal,[1,2,6] electrolytic.....lb. .12 - .12½
Nitrate tech., cryst., bbls....lb. .17 - .18½
Oleate, precip., bbls.....lb. .20 - —
Oxide, black, bbls., tons, works, lb. .19½- .21
Red, com'l, kgs., f.o.b. N. Y., lb. .20 - .22
Resinate, precip., bbls.....lb. .15 - .16
Sulphate, 99%, cryst., bbls., c.l., f.o.b. works..100 lbs. 5.15 - 5.50
l.c.l., 16-50 bbls., same basis, 100 lbs. 5.30 - 5.65
6-15 bbls., same basis, 100 lbs. 5.40 - 5.75
1-5 bbls., same basis, 100 lbs. 5.65 - 6.00
monohydrated, dms., c.l., dealers, f.o.b. works..100 lbs. 9.20 - —
l.c.l., dealers.....100 lbs.10.20 - —
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
bbls., c.l., works.....ton.20.00 - —
l.c.l., 25 or over, works, 100 lbs. 1.55 - —
1-4, works.....100 lbs. 2.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, Coast, ship.....lb. .05½- —
Coriander, bgs.....lb. .12½- .13
bleached, bgs.....lb. .13 - .13½
Corn silk, bls.....lb. .20 - .21
Corn sugar, tanners', chipped, bgs., c.l., dlvd..100 lbs. 4.05 - —
slabs, bbls., c.l.....100 lbs. 3.41 - —
solid, bbls., c.l.....100 lbs. 3.53 - —
Syrup, 42°, bbls., c.l..100 lbs. 3.52 - —
43°, bbls., c.l.....100 lbs. 3.57 - —
Corrosive sublimate, cryst., dms., 50 lbs. or more..lb. 2.39 - —
gran., powd., dms., 50 lbs. or more..lb. 2.24 - —
Cottonroot bark, bls.....lb. .15 - .16
Cottonseed, hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. 1.00 - —
meal, 8%, Southeast, mills..ton.39.00 - —
Coumarin, 5 lbs. or more, 25-lb. cns..lb. 2.75 - 3.00
5-lb. cns.....lb. 2.85 - 3.10
1-lb. cns.....lb. 3.00 - 3.25
1-oz. cns.....lb. 3.35 - 3.60
less than 5 dms., cns.....lb. 4.15 - 4.65
Cramp bark, genuine, bls.....lb. .30 - .65
so-called, bls.....lb. .06 - .07
Cranesbill root, bls.....lb. .10 - .13
Cream of tartar, gran. or powd., bbls., 5,000 lbs., one shipm't, lb. .57½- —
smaller lots, bbls.....lb. .58 - —
kgs. .....lb. .58½- —
Creosote, beechwood, cbys., dms., lbs. .80 - .85
bots. .....lb. 1.00 - 1.04
hardwood, USP, bots.....lb. .60 - .77
Pine, dms.....gal. .28 - —
Carbonate, bots., chys.....lb. 2.10 - 2.39
Oil, crude, tanks, works....gal. .15½- —
Coaltar, solution, tanks, works, gal. .14¼- —
refd., bbls., l.c.l., works..gal. .26 - —
tanks, works.....gal. .18 - .18¼
Cresol,[6,7] USP, dms., c.l., works, lb. .11 - .11¼
l.c.l., same basis.....lb. .11½- .11¾
special resin grade, dms., c.l., works..lb. .10 - .10¼
l.c.l., same basis.....lb. .10½- .10¾

Crotonaldehyde, 97%, 55 and 110 gal., l.c.l., works..lb. .15 - —
5 and 10-gal. dms., works..lb. .18 - —
Cryolite, syn., c.l., frt. alld. E. of Miss. River..lb. .08½- —
l.c.l., works..lb. .09½- —
natural, c.l..100 lbs. 8.75 - —
l.c.l. ..100 lbs. 9.25 - —
Cube root, powd., 5% rotenone, bbls., f.o.b. N.Y.C..lb. .38 - .40
4% rotenone prices are 3c. per lb. less.
Cubeb berries, XX, bgs.....lb. .48 - .50
powd., cs.....lb. .53 - .54
Culver's root, bls.....lb. .24 - .28
Cumin seed, Morocco, bgs.....lb. .18 - .18½
Cyprus, bgs.....lb. .18 - .18½
Indian, bgs.....lb. .16¾ - .17¼
Persian, bgs.....lb. .17½- .18
Cutch, Borneo, extract, solid, contract, f.o.b. N.Y., duty paid..lb. .04¾- —
Cyanamide, 22% N, pulv., bgs., dlvd., contracts..unit-ton. No prices
Cyanide-chloride, mixture, 45%, gran., dms..lb. .10¾- —
lump, dms.....lb. .09¾- —
75%, gran., dms.....lb. .15 - —
Cyclohexane, 98-100%, dms., wks. lb. .16 - —
Cyclohexanol, 98-100%, dms., wks. lb. .23 - —
Cyclohexanone, 98-100%, dms., works..lb. .32 - —
Cyclopropane, USP, cyls., dlvd. gal. .27 - —

## D

Damiana leaves, bls.....lb. .15 - .16
Dandelion root, bls.....lb. .50 - .52
Decanol, normal, tech., 360 lbs., dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .15 - .17
Degras, common, dom., bbls...lb. .08¾- .11½
neutral, dom., bbls.....lb. .18 - .24
Derris root, powd., 5% rotenone, bbls., f.o.b. N.Y..lb. .38 - .40
4% rotenone prices are 3c. per lb. less.
Derris, extract, 30% rotenone, bulk, cns..lb. 4.25 - 4.50
Dextrin, British gum, c.l., f.o.b. Chicago..100 lbs. 4.25 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.35 - —
Corn, canary, bgs., c.l., f.o.b. Chicago..100 lbs. 4.00 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.80 - —
white, bgs., c.l., f.o.b. Chicago..100 lbs. 3.95 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.15 - —
Potato, bgs., dom., c.l.....lb. .09¼- —
l.c.l., bgs.....lb. .10 - .10½
Diacetone (see under Alcohol).
Diacetyl, bots.....lb. 3.50 -11.00
Diamyl ether (See Amyl Ether).
Phthalate, dms., c.l., dlvd...lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .20 - —
Diamyl sulphide, l.c.l., dms., works..lb. .25 - —
Diamylamine, dms., c.l., works, lb. .50 - —
l.c.l., works.....lb. .53 - —
Diamylene, dms., c.l., works..lb. .105 - —
l.c.l., works.....lb. .112 - —
tanks, works.....lb. .093 - —
Diamylnaphthalene, dms., l.c.l., works..lb. .17 - —
Diamylphenol (2, 4), dms., c.l., works..lb. .18 - —
l.c.l. .....lb. .21 - —
Diatomaceous earth, dom., natural, bgs., c.l., f.o.b. Pacific cst..ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., f.o.b. Atlantic seaboard..ton.35.00 -39.00
l.c.l., ex whse.....ton.85.00 -90.00
chemically pure, bgs., c.l., f.o.b. Atlantic seaboard..lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
Import, Algerian, bgs., c.l., c.i.f. ton. No prices
Mexican, white, bgs., c.l., c.i.f. lb. .02 - .03
l.c.l. .....lb. .04 - .06
Dibutylamine, dms., c.l., works, lb. .50 - —
l.c.l. .....lb. .53 - —
tanks, works.....lb. .48 - —
Dibutyl ether (see Ether, butyl).
Phthalate,[2] dms., c.l., dlvd.lb. .19 - .20
l.c.l., dlvd.....lb. .19½- .20½
tanks, dlvd.....lb. .18 - .19
cns., works.....lb. .23½ - .25½
Sebacate, dms., works.....lb. .45 - .47
Tartrate, dom., dms.....lb. .87 - —
Dicalcium phosphate (see Calcium phosphate dibasic).


STAUFFER CHEMICALS

CARBON BISULPHIDE

and

BORAX
BORIC ACID
CARBON TETRACHLORIDE
CAUSTIC SODA
CITRIC ACID
CREAM OF TARTAR
LIQUID CHLORINE
SILICON TETRACHLORIDE
STRIPPER, TEXTILE
SULPHUR
SULPHURIC ACID
SULPHUR CHLORIDE
TARTARIC ACID
TITANIUM TETRACHLORIDE
WHITING

PACIFIC COAST PRODUCTS

SULPHATE OF ALUMINA : COMMERCIAL MURIATIC ACID
COMMERCIAL NITRIC ACID : COPPERAS : SUPERPHOSPHATE
NITRATE OF POTASH

Stauffer

Stauffer Chemical Co.

420 LEXINGTON AVE., NEW YORK, N. Y.
230 NO. MICH. AVE., CHICAGO, ILL.
624 CALIFORNIA ST., SAN FRANCISCO, CAL.
555 SO. FLOWER ST., LOS ANGELES, CAL.
424 OHIO BUILDING, AKRON, OHIO
FREEPORT, TEXAS APOPKA, FLORIDA




Dichlorethyl ether, dms., c.l., works..lb. .15 - —
l.c.l. .....lb. .16 - —
tanks .....lb. .14 - —
Dichloropentanes, dms., c.l., works..lb. .037 - —
l.c.l. .....lb. .04½- —
tanks .....lb. .03 - —
Diethanolamine, dms., c.l., works, lb. .23½- —
l.c.l., works.....lb. .24½- —
tanks, works.....lb. .22½- —
Diethylamine, dms., l.c.l., works, lb. .70 - —
Diethylamino ethanol, l.c.l., dms., works, frt. alld. E. of Miss. river, l.c.l., dms..lb. .75 - —
Diethylanilin, dms.....lb. .40 - —
Diethyl carbonate, com'l, dms.. lb. .25 - —
refd., 99% dms.....lb. .35 - —
Oxalate, dms., l.c.l., dlvd....lb. .28 - —
Phthalate, dms., c.l., dlvd..lb. .20 - —
l.c.l. .....lb. .20½- —
tanks .....lb. .19 - —
Sulphate, dms., c.l., works...lb. .13 - —
l.c.l., works.....lb. .14 - —
tanks .....lb. .12 - —
Diethyleneglycol, dms., c.l., works, lb. .14 - —
l.c.l., works.....lb. .15½- —
Monobutylether, dms., works.lb. .22½- .24½
Monoethylether, d m s , c.l. works..lb. .14½- —
l.c.l., works.....lb. .15½- —
tanks, works.....lb. .13½- —
Digitalis leaves, dms.....lb. .50 - .55
Diglycol, laurate, c.l.....lb. .16 - —
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .22 - —
Di-isobutyl ketone, dms., works.lb. .19 - —
Dillseed, cleaned, bgs.....lb. .09½- .10
Dimethyl phthalate, dms., c.l., dlvd..lb. .20 - —
l.c.l., dlvd.....lb. .20½- —
tanks, dlvd.....lb. .19 - —
Dimethylamine, dms., c.l., dlvd.lb. .85 - —
l.c.l., dlvd.....lb. .90 - —
Dimethylanilin, dms., c.l.....lb. .23 - —
l.c.l., dms.....lb. .24 - —
Dinitrobenzene, bbls., 90° min.lb. .18 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .35 - .38
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, dms.....lb. .18 - —
oily, dms.....lb. .05 - —
Diorthotoluolguanidin, dms., 2,000 lbs. or over, dlvd..lb. .44 - —
600-1,950 lbs., dlvd.....lb. .46 - —
150-450 lbs., dlvd.....lb. .47 - —
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dms.....gal. .59 - .51
tanks .....gal. .51 - —
dest., dist., dms.....gal. .55 - .58
tanks .....gal. .48 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, dms..lb. .43 - .45
cns. .....lb. .48 - .50
Diphenylamine, bbls.....lb. .25 - —
Diphenylguanidin, dms., 2,000 lbs. or over, dlvd..lb. .35 - —
600-1,950 lbs., dlvd.....lb. .36 - —
150-450 lbs., dlvd.....lb. .37 - —
Dimethylethyl carbinol (see Carbinol).
Divi-Divi, Colombian.....ton.48.00 - —
Venezuelan .....ton.48.00 - —
Doggrass root, imp. cut, NF, bls. lb. .90 - 1.00
domestic, bls.....lb. .36 - .37
Dogwood bark, Jamaica, bls...lb. .08 - .09
Dovers powder, USP, cns.....lb. 2.75 - 2.80
Dragon's blood, reeds, cs.....lb. .95 - 1.00
Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—
Blue, FD&C blue, No. 1, cns.lb.13.50 - —
FD&C blue, No. 2, cns....lb.13.50 - —
Green FD&C green, No. 2, cns. lb.17.50 - —
FD&C green, No. 3, cns....lb.27.50 - —
FD&C green, No. 1, cns....lb.13.50 - —
Orange, FD&C orange, No. 1, cns..lb. 2.90 - —
FD&C orange, No. 2, cns..lb. 3.65 - —
Red, FD&C red, No. 1, cns..lb. 6.00 - —
FD&C red, No. 2, cns.....lb. 5.15 - —
FD&C red, No. 3, cns.....lb.17.50 - —
FD&C red, No. 4, cns.....lb. 5.75 - —
FD&C red, No. 32, cns.....lb. 4.15 - —
Yellow, FD&C yellow, No. 1, cns..lb. 8.50 - —
FD&C yellow, No. 3, cns..lb. 2.65 - —
FD&C yellow, No. 4, cns..lb. 2.65 - —
FD&C yellow, No. 5, cns..lb. 3.15 - —
FD&C yellow, No. 6, cns..lb. 3.15 - —
Dyes, coaltar (certified colors), for drugs and cosmetics:—
Black, D&C black, No. 1.....lb. 8.35 - —
Blue, D&C blue, No. 6.....lb.13.50 - —
Brown, D&C brown, No. 1, cns., lb.12.35 - —
Green, D&C green, No. 5, cns., lb.12.35 - —
D&C green, No. 6, cns.....lb.12.35 - —
Orange, D&C orange, No. 3, cns..lb. 8.35 - —
D&C orange, No. 4, cns....lb.15.35 - —
D&C orange, No. 10, cns...lb.15.35 - —
D&C orange, No. 11, cns...lb.17.35 - —
Red, D&C red, No. 8.....lb. 6.00 - —
D&C red, No. 17.....lb. 8.35 - —
D&C red, No. 18.....lb.13.35 - —
D&C red, No. 19, cns....lb.15.35 - —
D&C red, No. 22, cns.....lb. 8.35 - —
D&C red, No. 33.....lb.13.35 - —
D&C red, No. 37, cns.....lb.12.35 - —
Yellow, D&C yellow, No. 7, cns..lb. 8.35 - —
D&C yellow, No. 8, cns....lb. 8.35 - —
D&C yellow, No. 11.....lb.10.35 - —
Dyes, coaltar (certified colors), for external use drugs and cosmetics:—
Blue, Ext. D&C blue, No. 1, cns..lb.12.35 - —
Green, Ext. D&C green, No. 1, cns..lb.12.35 - —
Red, Ext. D&C red, No. 1, cns..lb.10.35 - —
Ext. D&C red, No. 3.....lb.21.35 - —
Ext. D&C red, No. 8.....lb. 7.35 - —
Ext. D&C red, No. 10, cns..lb.12.35 - —
Ext. D&C red, No. 13, cns..lb.12.35 - —
Yellow, Ext. D&C yellow No. 1, cns..lb. 8.35 - —
Dyes, coaltar, for general uses (numbers are those of Colour index scale):—
36 Chrome yellow 2G....lb. .65 - .70
40 Chrome yellow R.....lb. .50 - 1.00
53 Victoria violet.....lb. .90 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste....lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
Sulphur tan.....lb. .30 - .50

## Dyes—Gum, Chicle

Dyes, coaltar, for general uses (numbers are those of Colour Index scale):—
202 Chrome blue black U..lb. .32 - .40
204 Chrome black A.....lb. 1.75 - 2.00
206 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
290 Chrome black F.....lb. .60 - .65
307 Fast cyanin black B..lb. .80 - .85
326 Direct cast scarlet....lb. 2.00 - 2.25
304 Paper yellow.....lb. .85 - .90
365 Chrysophenin G.....lb. .58 - .70
394 Direct violet N.....lb. 1.25 - 1.35
382 Direct violet B.....lb. 1.50 - 1.75
387 Direct violet R.....lb. 1.00 - 1.30
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .25 - .30
415 Direct orange R.....lb. .60 - .70
419 Direct fast red F.....lb. 1.00 - 1.10
439 Direct brown M.....lb. .50 - .56
448 Benzo purpurin 4B...lb. .54 - .56
495 Benzo purpurin 10B..lb. .40 - .50
502 Direct azurin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.10 - 1.25
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black F..lb. .55 - 1.00
561 Direct black EW.....lb. .25 - .50
562 Direct black RX.....lb. .35 - .45
592 Direct green B.....lb. .75 - .80
594 Direct green G.....lb. 1.00 - 1.05
596 Direct brown 3GO....lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
698 Acid violet.....lb. 1.00 - 3.00
812 Primulin.....lb. .50 - .52
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble), lb. .35 - .50
1177 Indigo, 20 p.c. paste..lb. .15 - .18
Benzo fast black L...lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .40 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 -
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).
Black:—
865 Nigrosin derivatives..lb. .38 - .62
Blue:—
1075 Alizarin astrol base..lb.13.00 - —
1078 Alizarin cyanin green base..lb. 6.00 - —
Brown:—
Brown .....lb. 1.15 - —
Green:—
1078 Alizarin cyanin green.lb. 5.00 - —
Green .....lb. .75 - —
Orange:—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red:—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .95 - —
749 Rhodamine B (oil pink), lb. 2.50 - —
1080 Anthraquinone violet base..lb. 6.00 - —
680 Oil violet.....lb. .50 - —
Yellow:—
15 Amidoazobenzene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - 2.00

Dyes, coaltar for stains, water-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher, f.o.b. sellers' works or warehouse).
Black:—
864 Nigrosin.....lb. .38 - .47
Blue:—
860 Indulin.....lb. .60 - .70
Brown:—
381 Bismarck brown.....lb. 1.50 - —
Green:—
657 Malachite green base.lb. 2.00 - —
Orange:—
20 Chrysoidin G.....lb. .95 - —
21 Chrysoidin R.....lb. .95 - —
Red:—
677 Fuchsin, magenta, base, lb. 7.25 - —
749 Rhodamine B.....lb. 4.75 - —
Yellow:—
67 Amidoazotoluene yellow, lb. .75 - —
655 Auramine.....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet:—
680 Methyl violet base....lb. .95 - —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher, f.o.b. sellers' works or warehouse).
Black:—
246 Naphthol blue black S.lb. .50 - —
873 Methylene gray.....lb. 1.50 - —
Blue:—
714 Patent blue A.....lb. 1.05 - 1.10
729 Victoria blue B.....lb. 1.35 - —
861 Indulin.....lb. .87 - —
909 New blue R.....lb. 1.30 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B..lb. 1.90 - —
1180 Indigotin IA.....lb. .85 - —
Brown:—
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R, lb. .66 - —
241 Bismarck brown G....lb. .47 - .62
332 Bismarck brown R...lb. .47 - .62
798 Phosphin.....lb. 4.65 - —
Green:—
5 Naphthol green B.....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cyanin green.lb. 2.25 - —
Orange:—
10 Chrysoidin G.....lb. .44 - —
21 Chrysoidin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
151 Orange Y.....lb. .30 - —
161 Orange R.....lb. .34 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B, lb. .68 - —
79 Popceau R.....lb. .48 - —
88 Fast red B.....lb. 1.05 - —
176 Fast red A.....lb. .54 - —
179 Azorubin.....lb. .60 - .62
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
262 Brilliant crocein M...lb. .68 - —
677 Fuchsin.....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6G.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
941 Safranin.....lb. 1.45 - —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher, f.o.b. sellers' works or warehouse).
Violet:—
680 Methyl violet B.....lb. .75 - —
681 Crystal violet C.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —
Yellow:—
10 Naphthol yellow S....lb. .88 - —
138 Metanil yellow.....lb. .53 - —
636 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —
Dyes, natural (see name of article).

## E

Echinacea root, bls.....lb. .18 - .19
Egg albumen (see Albumen).
yolk, dried, dom., bbls.....lb. 1.00 - 1.05
imported .....lb. .95 - 1.00
Elder flowers, bright, bls.....lb. .85 - 1.00
Elecampane root, bls.....lb. .17 - .22
Elm bark, grinding, bls.....lb. .11 - .12
powd., bbls., bxs.....lb. .19 - .20
select, bndls. .....lb. .19 - .21
Emetine hydrochloride, bots..oz.26.00 -34.50
Ephedra, bls. .....lb. .12 - .13
Ephedrine, synth., USP, heminydrate, bots., 100 ozs. or more..oz. .65 - —
anhyd., bots., 100 ozs. or more..oz. .65 - —
Hydrochloride, tins, 100 ozs. or more..oz. .50 - —
Sulphate, cryst., tins, 100 ozs. or more..oz. .48 - —
natural, USP, anhydrous, bots. oz. 1.15 - 1.65
hydrochloride or sulphate, tins..oz. .95 - 1.45
Epsom salt, tech., bgs....100 lbs. 1.80 - —
bbls. .....100 lbs. 1.90 - —
Epsom salt prices on technical and USP are on the basis of freight equalized with Baltimore, Carteret, N. J., Chicago, Cincinnati, Cleveland, Houston, New Orleans, New York.
USP, cryst., dom., bgs., c.l., 100 lbs. 2.00 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.25 - —
smaller lots....100 lbs. 2.50 - —
bbls., c.l. .....100 lbs. 2.10 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.35 - —
smaller lots....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots....100 lbs. 2.85 - —
dried, bgs., l.c.l.....lb. .08 - .09
Ergot, USP, cns., dms.....lb. 1.70 - 1.80
Eserine, bots.....oz. No prices
Salicylate, bots.....oz.41.00 -48.00
Sulphate, bots.....oz.41.00 -48.00
Ether, acetic (see Ethyl acetate, Butyl, l.c.l., dlvd.....lb. .26 - .28
Ethyl (see Ether, sulphuric).
Nitrous, conc., bots. 100 lbs., lb. .73 - —
Sulphuric, conc., 310-lb. dms.lb. .11 - —
27-lb. dms. .....lb. .16 - —
Synth., dms., c.l., works....lb. .10 - —
l.c.l., works.....lb. .11 - —
tanks .....lb. .08 - —
USP, anesthesia, hospitals, 1-lb. cns..lb. .32 - .38
Amyl (see Amyl, ether):—
Ethyl acetate,[2] 85-90%, dms., c.l., frt. alld..lb. .08½- .09½
l.c.l., frt. alld.....lb. .09 - .10
tanks, frt. alld.....lb. .07½- .08½
95-98% dms., c.l., frt. alld.lb. .08½- .09½
l.c.l., frt. alld.....lb. .09½- .10½
tanks, frt. alld.....lb. .07½- .08½
NF, 390-lb. dms.....lb. .10 - —
cns., 35 lbs.....lb. .14 - .15
Acetoacetate, dms., c.l., wks.lb. .29½- —
l.c.l., dms., works.....lb. .30 - —
Benzoate, bots. .....lb. 1.00 - 1.25
Bromide, tech., dms.....lb. .50 - .55
Caproate, cns.....lb. 1.06 - —
Chloride, dms. .....lb. .18 - .20
Cinnamate, cns.....lb. 3.50 - 3.75
Formate, cns., dms.....lb. .23 - .26
Iodide, bots. .....lb. 3.50 - 3.60
Lactate, 55-gal. dms., works, lb. .33½- —
5-gal. dms., works.....lb. .37½- .39½
Oenanthate, dms. .....lb. .75 - 1.25
Oxalate, dms., frt. alld.....lb. .25 - —
Oxyhydrate, bots. .....gal. 4.00 - 6.00
Silicate, l.c.l., dms., works..lb. .77 - —
Vanillin, 25-lb. lots, cns.....lb. 4.75 - 6.00
5-lb. lots, cns. .....lb. 4.80 - 6.05
1-lb. lots, cns. .....lb. 4.95 - 6.15
Ethylcellulose, std. cans, 5,000 lbs. or more, frt. alld..lb. .45 - —
less than 5,000 lbs., same basis..lb. .47 - —
Ethylene, dichloride,[3] dms., c.l., works, E. of Rockies, frt. alld..lb. .0742- —
West of Rockies, same basis..lb. .0792- —
l.c.l., works, E. of Rockies, frt. alld..lb. .0795- —
West of Rockies, same basis..lb. .0841- —
Ethyleneglycol, dms., c.l.....lb. .14½- —
l.c.l. .....lb. .15½- .18½
tanks .....lb. .13½- —
Monobutylether, dms., c.l., wks. lb. .16½- —
l.c.l., works.....lb. .17½- .20½
tanks, works.....lb. .15½- —
Ethyleneglycol, monoethylether, dms., c.l., works..lb. .14½- —
l.c.l., works.....lb. .15½- .16½
tanks, works.....lb. .13½- —
Monoethylether, acetate, dms., c.l., works..lb. .11½- —
l.c.l., dms.....lb. .12½- .15½
tanks, works.....lb. .10½- —
Monomethylether, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ethylidinanilin, dms.....lb. .45 - .47½
Eucalyptol, cns., dms.....lb. 1.50 - 1.60
Eucalyptus, leaves, bls.....lb. .10 - .11
Eugenol, cns., dms.....lb. 2.40 - 2.50
Euphorbia, bls.....lb. .12 - .15

## F

Feldspar, enamel, 100 mesh, bulk, works..ton.14.00 -17.50
l.c.l., minimum 2 tons...ton.17.00 -20.50
glass, 20 mesh, bulk, works.ton. 9.75 -12.25
l.c.l., minimum 2 tons...ton.12.75 -16.25
pottery, bulk, Me., works...ton.17.00 -19.00
N.C., works.....ton.17.00 -19.00
l.c.l., minimum 2 tons.ton.20.00 -22.00
Fennel seed, Argentine, bgs....lb. .14 - .14½
German, large bags.....lb. .20 - .21
Indian, bags.....lb. .11 - .11½
Fenugreek, seed, bgs.....lb. .10 - .10½
Ferric, sulphate, anhyd., c.l., works..ton.35.00 - —
l.c.l. .....ton.40.00 - —
Film scrap, colors, dark, cs., 1,000 lbs. or over, works..lb. .12 - —
smaller lots, works....lb. .13 - —
light, cs., 1,000 lbs. or over, works..lb. .13 - —
smaller lots, works....lb. .15 - —
water white, cs., 1,000 lbs. or over, works..lb. .14 - —
smaller lots, works....lb. .15 - —
Fir balsam, Canada, cns.....gal.13.50 -15.00
Oregon, bbls.....gal. 1.25 - 1.35
Fish berries, bgs.....lb. .26 - .27
Fish scrap, menhaden, dried, 11-12% ammon., 15% bone phos., bulk, Chesapeak factories, contracts, futures..unit-ton. 4.75 & .10
meal, bgs., f.o.b. Balto.....ton.71.00 - —
6-7% ammon., 3% phosphor. acid, bulk, Chesapeake Bay factories, contracts..... unit-ton. 2.75 & .50
sardine, Japanese, 11½% ammon., bgs., c.l.f. ports..ton. No prices
Flake white, dom., bbls.....lb. .09 - —
kegs .....lb. .11 - —
Fleaseed, French, black, bgs..lb. .55 - .60
Indian, blonde, bgs.....lb. .15 - .16
Fluorspar, dom., No. 1 ground, bulk, 95-98%, f.o.b. mines, net ton.32.00 -34.00
washed gravel, 85.5 f.o.b. Ky.-and-Ill.-Ky. mines..net ton.24.00 - —
No. 2, lump, 85.5 f.o.b. Ky.-and Ill. mines....net ton.24.00 - —
imported, 85.5, duty paid..... short ton.26.00 - —
Formaldehyde,[1,2,4,5] bbls., c.l., works..lb. .0550- .0575
l.c.l., works.....lb. .06 - .0625
dms., c.l., works.....lb. .0515- .0540
l.c.l., works.....lb. .0565- .0590
tanks .....lb. .04 - .04¼
Formaldehyde prices are under 4¼c. to 9½c. OPA ceiling.
Fringetree bark, bls.....lb. .20 - .35
Fullers earth, dom., powdered, bgs., c.l., f.o.b. Fla., Ga. mines..ton. 8.50 -15.00
f.o.b. Tex. mines.....ton.12.50 - —
import, Eng., bgs., c.l., dlvd. N.Y...ton.30.00 -40.00
Furfural, ref., dms., c.l., works, lb. .15 - —
l.c.l., works.....lb. .17½- .25
tech., dms., contracts, 150,000 lbs..lb. .10 - —
tanks, works.....lb. .09 - —
dms., c.l., works.....lb. .12½- —
l.c.l., works.....lb. .15 - .20
Fusel oil, refd., dms., incl., dlvd., lb. .17½- .19½
Fustic, cryst., bgs., No. 1....lb. .32 - —
No. 2..lb. .30 - —
No. 3..lb. .28 - —
extract, bbls., No. 1.....lb. .16 - —
No. 2..lb. .15 - —
No. 3..lb. .12½- —

## G

G salt, bbls.....lb. .45 - —
Galangal root, bls.....lb. .12 - .14
Gambier, common, cases.....lb. .09½- —
plantation, cases.....lb. .12 Nom.
cubes, Singapore, cases...lb. .09½- .10
extract, bbls.....lb. .09½- .12
Gasoline[3] at refinery:.....
Bayonne, US motor, tanks, ex tax..gal. .08 - .08½
California (f.o.b. San Francisco), regular, trucks, tax incl..gal. .14½- —
Gulf Coast, US motor, 72-74 octane, tanks, ex tax..gal. .07½- —
Louisiana-Arkansas, US motor, 72-74 octant, tanks, ex tax. gal. .05¾- .06¼
Oklahoma-Texas, US motor, 72-74 octane, tanks, ex tax. gal. .05¾- .06¼
natural, 18-55, tanks....gal. .05¼- —
26-70, tanks.....gal. .04¼- —
Gelatin, silver, cs.....lb. .80 - 1.00
Gelsemium root, bls.....lb. .14 - .15
Gentian root, bls.....lb. .60 - .61
grd., bbls., bxs.....lb. .63 - .64
powd., bbls. bxs.....lb. .65 - .66
Geraniol, 92-96%, cns., dms....lb. 2.50 - 3.50
other grades, cns., dms.....lb. 1.50 - 1.90
soap, cns., dms.....lb. 1.10 - 1.50
Ginger, African, No. 1, bgs....lb. .38 - .39
Cochin, bgs.....lb. .35 - .37
Jamaica, bold, bgs.....lb. .42 - .43
medium, bgs.....lb. .40 - .42
grinding, bright, bgs.....lb. .38 - .40
Ginseng root, wild Southern, cs. lb.12.00 -13.00
Glauber's salt, anhyd. (see Soda Sulphate).
cryst., dom., bgs., bbls., c.l., works..100 lbs. 1.05 - 1.28
5 tons or over, works. 100 lbs. 1.15 - 1.35
less than 5 tons, works. 100 lbs. 1.25 - 1.45
import, bgs.....100 lbs. No prices
Glue, bone, calcimine type, 24 millipoise, 36 jellygrams, bgs., c.l., dlvd. East or Midwest....lb. .16 Nom.
l.c.l. .....lb. .17 Nom.
36/58, c.l.....lb. .15½ Nom.
l.c.l. .....lb. .16½ Nom.
58/82, c.l.....lb. .17 Nom.
58 millepoise, 82 jellygrams, bgs., l.c.l.....lb. .18 Nom.
82/108, c.l.....lb. .17½ Nom.
l.c.l. .....lb. .18½ Nom.
hide, calcimine type, 58 millipoise, 135 jellygrams, bgs., c.l., dlvd. East or Midwest..lb. .19 Nom.
l.c.l. .....lb. .20 Nom.
60/164, c.l.....lb. .19½ Nom.
l.c.l. .....lb. .20½ Nom.
67/122, c.l.....lb. .21½ Nom.
l.c.l. .....lb. .22½ Nom.
75/222, c.l.....lb. .24½ Nom.
l.c.l. .....lb. .23½ Nom.
68/251, c.l.....lb. .24½ Nom.
l.c.l. .....lb. .25½ Nom.
92/283, l.c.l.....lb. .26½ Nom.
l.c.l. .....lb. .28½ Nom.
102/315, c.l.....lb. .27½ Nom.
l.c.l. .....lb. .28½ Nom.
113/347, c.l.....lb. .28 Nom.
l.c.l. .....lb. .29 Nom.
Glue, hide, calcimine type, 125/379, c.l.....lb. .29 Nom.
l.c.l .....lb. .30 Nom.
Glue prices for barrel packing are ½c. per lb. higher; grinding charges, 20-40 mesh, ½c. per lb.; 60 mesh, 1c. per lb.
Glycerin[1], Zones A and C, C.P., (B.P. 98%), drums, carlots, dlvd..lb. .18¾- —
less carlots, dlvd....lb. .19¼- —
tanks, dlvd.....lb. .18½- —
C.P. (USP 95%), drums, carlots, dlvd..lb. .18¾- —
less carlots, dlvd....lb. .18¾- —
tanks, dlvd.....lb. .18 - —
dynamite, high gravity, yellow distilled, drums, carlots, dlvd..lb. .18¾- —
less carlots, dlvd....lb. .18¾- —
tanks, dlvd.....lb. .18 - —
Soaplye, 80%, drums, carlots, dlvd..lb. .11½- —
less carlots, dlvd....lb. .11½- —
tanks, dlvd.....lb. .11½- —
Saponification, 88%, to refiners, drums, c.l., dlvd..lb. .12¾- —
less carlots, dlvd....lb. .12¾- —
tanks, dlvd.....lb. .12¾- —
Saponification, 88%, for individual uses, drums, carlots, f.o.b. point of manufacture. lb. .13¾- —
less carlots, same basis. lb. .14¾- —
tanks, same basis.....lb. .12¾- —
Glycerin prices in Zone B are 2c. higher.

Zone A means all points east of and including N. Dak., S. Dak., Neb., Kansas, Omaha, Texas, Laramie County, Wyo.; Col., east of but not including the following counties:—Jackson, Grand, Gilpin, Jefferson, Douglass, Teller, Fremont, Custer, Huerfano, and Costilla.

Zone B means the territory between Zones A and C, as follows:—Washington, east of and including the following counties:—Okanogan, Chelan, Kittitas, Yakima, Klickitat; Ore., east of and including the following counties:—Hood River, Wasco, Jefferson, Deschutes, Klamatch; Nev., Ariz., New Mex., that part of Col. west of and including those counties mentioned above; Utah, Wyo., excepting Laramie County; Idaho and Mont.

Zone C means the territory west of Zone B.

Glycine, medicinal, bbls., tins.lb. 1.70 - 2.00
Glycol boriborate, dms.....lb. .22 - —
Phthalate, dms. .....lb. .33 - —
Stearate, dms. .....lb. .25 - —
Gold, U.S. purchase price... .oz.35.00 - —
Chloride, acid brown, both..oz.20.75 -21.00
yellow, bots. .....oz.18.75 -19.00
Gold-soda chloride, photo., bots., oz.13.00 - —
USP IX. bots. .....oz.14.50 -14.75
Gold of pleasure, seed, bgs....lb. .21 - .22
Goldenseal, root, bls.....lb. 3.95 - 4.25
powd., bxs. .....lb. 4.15 - 4.50
Grains of Paradise, bgs.....lb. .34 - .35
Graphite, flake (cryst.), 90% 325 mesh, 50% graphite carbon, bgs., c.l., works...lb. .07 - —
bbls., c.l., works....lb. .07¼- —
l.c.l., works.....lb. .07¼- —
65% graphite carbon, bgs., c.l., works..lb. .02½- —
l.c.l., works .....lb. .03¼- —
bbls., c.l., works.....lb. .02¾- —
80% graphite, carbon, bgs., c.l., works..lb. .03¼- —
bbls., c.l., works....lb. .03¾- —
l.c.l., works .....lb. .04½- —
Grease, house, loose.....lb. .08¾- —
white, loose.....lb. .09 - —
Wool (see Adeps lanae and Degras).
Green,[5] chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .23 - —
6-10%, bbls., same basis..lb. .24 - —
11-15%, bbls., same basis.lb. .25 - —
16-20%, bbls., same basis..lb. .25½- —
21-25%, bbls., same basis.lb. .26 - —
26-30%, bbls., same basis.lb. .26½- —
31-35%, bbls., same basis.lb. .27½- —
36-40%, bbls., same basis.lb. .29 - —
41-45%, bbls., same basis.lb. .30½- —
46-50%, bbls., same basis.lb. .33 - —
Green, chrome, prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, ½c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago reduced, CF, color content up to 5%, same basis..lb. .06½- —
9-10%, bbls., same basis.lb. .07¾- —
11-13%, bbls., same basis.lb. .07¾- —
14-16%, bbls., same basis.lb. .08 - —
17-19%, bbls., same basis.lb. .08¼- —
20-21%, bbls., same basis.lb. .08½- —
22-23%, bbls., same basis.lb. .08¾- —
24-25%, bbls., same basis.lb. .09 - —
26-27%, bbls., same basis.lb. .09¼- —
28-29%, bbls., same basis.lb. .09½- —
30-31%, bbls., same basis.lb. .10¼- —
32-33%, bbls., same basis.lb. .11¼- —
34-35%, bbls., same basis.lb. .12¾- —
36-40%, bbls., same basis.lb. .14¾- —
41-45%, bbls., same basis.lb. .16¾- —
46-50%, bbls., same basis.lb. .17¾- —
51-55%, bbls., same basis.lb. .17¾- —
56-60%, bbls., same basis.lb. .18¼- —
61-65%, bbls., same basis.lb. .18¾- —
66-70%, bbls., same basis.lb. .19¾- —
71-75%, bbls., same basis.lb. .20¾- —
Oxide, dom., pure, bbls.....lb. .25 - —
ceramic, light shades, bbls., works..lb. .25 - —
l.c.l., works.....lb. .27 - —
standard grade, bbls., works..lb. .23½- —
Tetrahydroxide, bbls.....lb. .85 - —
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.75 - —
emerald, kgs.....lb. 2.60 - —
Verdigris (see V).
Green dyes are listed under Dyes.
Grindelia robusta, bls.....lb. .09 - .10
Guaiac resin, cs.....lb. .30 - .35
strained, cs.....lb. .85 - .90
Wood, bls.....lb. .04 - .05
Guaiacol, liq., dms.....lb. 1.75 - 2.01
Carbonate, flb. dms., 25 lbs..lb. 2.40 - 2.74
Guarana, powd., cs.....lb. .95 - 1.00
Gum Aloe (see A).
Ammoniac, tears, cs.....lb. .80 - .85
Arabic, amber sort, cleaned, bgs..lb. .18 - .20
powd., bbls.....lb. .22 - .24
white, sorts, l. bgs.....lb. .33 - .35
Asafetida (see A).
Asphaltum (see A).
Benzoin, Siam, cs.....lb. 2.75 - 3.00
Sumatra, cs.....lb. .38 - .40
Camphor (see C).
Chicle, prime, 33% moisture, bgs., ton lots..lb. .40 - .42

Gum, copal, Congo, 1, water white transparent, bgs., c.l., ex dock or ex whse., N. Y. or San Francisco..lb. .49½- —

Gum, copal, dammar, elemi, kauri, mastic, sandarac, and yacca gum prices on 80,000 lbs. min. apply to assorted lots of gums as well as one grading packed in bags, unless otherwise specified; l.c.l. prices are ½c. higher for 10 bgs. or over; ½c. higher for 1-9 bags.

2, water white.....lb. .29½- —
3, selected pale straw, bold, lb. .24½- —
4, pale straw, bold.....lb. .24 - —
5, pale straw, bold.....lb. .22½- —
6, pale amber, bold.....lb. .21½- —
7, pale straw, bold.....lb. .17 - —
8, light amber, bold.....lb. .17 - —
9, medium light amber, bold, lb. .13½- —
10, rescraped hard amber, bold..lb. .13½- —
11, hard dark amber, bold lb. .12½- —
12, selected bold sorts....lb. .11½- —
13, dark sorts bold.....lb. .09½- —
14, selected, fully scraped, ivory..lb. .23½- —
15, ordinary ivory sorts,..lb. .10½- —
16, inferior ivory sorts...lb. .09½- —
17, pale fingers.....lb. .18½- —
18, pale straw nubs.....lb. .19½- —
19, pale straw nubs.....lb. .18½- —
20, hard dark amber nubs, lb. .13¼- —
21, ordinary selected nubs, lb. .12½- —
22, small mixed nubs.....lb. .10½- —
23, dark mixed nubs.....lb. .11½- —
24, No. 1, ivory nubs....lb. .17¼- —
26, pale small nubs.....lb. .10½- —
27, pale small nubs.....lb. .10¼- —
28, pale dust.....lb. .06½- —
Batu, bold scraped.....lb. .11½- —
unscraped .....lb. .10½- —
chips .....lb. .07½- —
dust .....lb. .07 - —
nubs and chips.....lb. .07½- —
black, bold, scraped.....lb. .12½- —
unscraped .....lb. .08 - —
nubs and chips.....lb. .07½- —
Hiroe, Macassar, pale bold, lb. .17½- —
chips .....lb. .11½- —
dust .....lb. .07 - —
nubs .....lb. .13½- —
Singapore, Rasak, bold....lb. .22½- —
chips .....lb. .12½- —
dust .....lb. .07 - —
nubs .....lb. .17½- —
Manila, Bossa, amber and dark, bskts..lb. .14 - —
light, bskts.....lb. .15½- —
Loba A, bskts.....lb. .14½- —
B, bskts.....lb. .14¼- —
C, bskts.....lb. .13½- —
CNE, bskts.....lb. .10½- —
D, bskts.....lb. .13¼- —
DK, bskts.....lb. .10 - —
dust, bskts.....lb. .07½- —
Sambas and white split chips, bskts..lb. .15½- —
Singapore, dust, bskts.....lb. .07½- —
Spirit-soluble, CBB, bskts. lb. .13½- —
DBB, bskts.....lb. .12¼- —
MA, bskts.....lb. .10¼- —
MB, bskts.....lb. .09¼- —
WS, bskts.....lb. .12¼- —
Philippine, Manila, amber sorts, bskts..lb. .10½- —
chips, pale, bskts.....lb. .13½- —
pale, small, bskts.....lb. .11½- —
extra pale, sorts, bskts...lb. .13¼- —
nubs, bskts.....lb. .14¼- —
scraped, bskts.....lb. .15½- —
seeds and dust, bskts....lb. .09½- —
Pontianak, bold, genuine, bgs. lb. .22½- —
mixed, bgs.....lb. .17½- —
split, bgs.....lb. .19½- —
chips, bgs.....lb. .14½- —
nubs, bgs.....lb. .18½- —
Dammar, Batavia, A, cs., same basis as copal..lb. .35½- —
A/C, cs.....lb. .31¼- —
A/D, cs.....lb. .28½- —
A/E, cs.....lb. .25½- —
B, cs.....lb. .34½- —
C, cs.....lb. .28½- —
D, cs.....lb. .25½- —
dust, cs.....lb. .13½- —
E, cs.....lb. .18½- —
F, cs.....lb. .13¾- —
Singapore, 1, cs.....lb. .30½- —
2, cs.....lb. .25½- —
3, cs.....lb. .12½- —
chips, cs.....lb. .23½- —
dust, cs.....lb. .13 - —
seeds, cs.....lb. .17½- —
Elemi, cns., same basis as copal..lb. .08½- —
Ester, ordinary, c.l., dms., contract, dlvd. New Eng., N. Y., N. J., Pa., Va., N. C., Ky., Ohio, Ind., Mich., Wis. and Ill..lb. .08½- .09½
Mont., Idaho, Wyo., Nev., Utah, Col., Ariz., N. Mex. and Western Tex..lb. .09 - .10
Pacific Coast (water shipt.)..lb. .08½- .10
Other points.....lb. .08¾- .10½

For delivery of 3,000 pounds, prices are ¼c. per pound higher than the above in each case; for delivery of smaller lots, prices are ½c. per pound higher in each case. Spot prices are ½c. per pound higher.

Euphorbium, cs.....lb. .50 - .55
Galbanum, cs.....lb. 1.75 - 1.80
Gamboge, pipe, cs.....lb. .95 - 1.00
powd., bbls.....lb. 1.05 - 1.10
Ghatti, soluble, bgs.....lb. .11 - .15
superior, bgs.....lb. .09 - .11
Guaiac (see Guaiac resins).
Karaya, bbls., bxs., dms.....lb. .14 - .33
Kauri, brown, XXX, cs., c.l.lb. .60 - —
BX, cs., c.l., same basis..lb. .38 - —
B1, cs., c.l., same basis..lb. .28 - —
B2, cs., c.l., same basis..lb. .24 - —
B3, cs., c.l., same basis..lb. .18½- —
80%, chips, cs., c.l., same basis..lb. .15½- —
pale, XXX, cs., same basis.lb. .61 - —
1, cs., c.l., same basis....lb. .41 - —
2, cs., c.l., same basis....lb. .24 - —
3, cs., c.l., same basis....lb. .17¾- —
Kino, tins.....lb. No stocks
Locust bean, powd., bbls....lb. 1.10 - 1.15
Mastic, cs.....lb. 3.25 - 3.30
Myrrh, USP, cs.....lb. .60- .65
Olibanum, siftings, cs.....lb. .09 - .10
tears, cs.....lb. .20 - .35
Opium (see O).
Rosin (see R).
Sandarac, cks.....lb. 1.00 - 1.10
Scammony, cs.....lb. 1.10 - 1.25
Talha, bgs.....lb. .08 - .09
Thus, bbls.....280 lbs.16.50 - —
Tragacanth, Aleppo, 1 cs....lb. 3.25 - 3.40
2 cs.....lb. 2.70 - 2.80
3 cs.....lb. 1.10 - 1.20
Yacca, bgs.....lb. .06¾- .07¾

Gypsum, Keene's cement, paper bgs., c.l., f.o.b. Acme, Tex., frt. equald..ton.22.45 - —
Medicine Lodge, Kan., frt. equald..ton.17.00 - —
Harlem River, N. Y., frt. equald..ton.27.65 - —
New Brigton, N.Y.; frt. equald..ton.27.65 - —
Southard, Oklahoma, frt. equald..ton.17.00 - —
Sweetwater, Texas, frt. equald..ton.21.45 - —
plaster of paris, paper bgs., f.o.b. Blue Rapids, Kans., frt. equald..ton.12.50 - —
Acme, Tex., frt. equald.ton.12.50 - —
Medicine Lodge, Kans., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Oklahoma, frt. equald..ton.12.50 - —
Sweetwater, Texas, frt. equald..ton.12.50 - —
stucco, paper bgs., c.l., f.o.b. Acme, Tex.; Akron, N. Y.; Blue Rapids, Kansas; Clarence Center, N.Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, O.; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Va.; Portsmouth, N. H.; Roton, Tex.; Saltville, Va.; Southard, Okla.; Sweetwater, Tex.; frt. equald.. ton. 8.00 - —
Terra Alba, dom., paper bgs., c.l., f.o.b. New Brighton, N.Y.; Southard, Okla..ton.12.00 - —
Harlem River, N.Y..ton.12.00 - —
import, bgs., ex dock....ton. No prices

# H

Hawthorn berries, bgs.....lb. .65 - 1.25
Heliotropin, cryst., cns.....lb. 4.25 - 5.00
Hellebore root, write, powd., bbls., lb. .18 - .19
Helonias root, bls.....lb. .60 - .61
Hematine, cryst., bgs., No. 1..lb. .34 - —
No. 2..lb. .30 - —
No. 3..lb. .28 - —
No. 4..lb. .26 - —
No. 5..lb. .24 - —
paste, bxs, No. 1.....lb. .14½- —
No. 2.....lb. .12½- —
No. 3.....lb. .12½- —
Hemlock bark extract, 25%, tan, c.l., bbls., works..lb. .03½ Nom.
l.c.l., bbls., works.....lb. .03¾ Nom.
tanks, works.....lb. .03 Nom.
Hempseed, Manchur, bgs.....lb. .13 - .13½
Henbane leaves, bbls.....lb. 3.25 - 3.30
Henna leaves, bls.....lb. .25 - .26
powd., bbls., bxs.....lb. .30 - .31
Heptanes,[2] 56°-100°C, industrial grade, dms., c.l., Group 3..gal. .12½- —
l.c.l., Group 3.....bal. .19 - —
tankcars, Group 3.....gal. .10 - —
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .29 - —
10 gal., Group 3.....gal. .55 - —
77°-115°C, industrial grade, dms., c.l., Group 3..gal. .13 - —
l.c.l., Group 3.....gal. .19 - —
tankcars, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .29 - —
10 gal., Group 3.....gal. .55 - —
Hexaldehyde, normal, dms., c.l., works..lb. 1.10 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine,[2,3,6] tech., dms., 1,500 lbs. or more, shipment, f.o.b. Perth Amboy or N.Y.C..lb. .32 - —
150 to 1,350 lbs., shipments, same basis..lb. .33 - —
USP, dms., 500 lbs. or more, shipments, same basis..lb. .38 - —
fib. ctns., same basis.....lb. .40 - —
Hexanes,[2] 60°-70°C, industrial grade, dms., c.l., Group 3..gal. .13½- —
l.c.l., Group 3.....gal. .19 - —
tankcars, Group 3.....gal. .11 - —
laboratory grads, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .29 - —
10 gal., Group 3.....gal. .55 - —
Hexanol, dms., l.c.l., works...lb. .25 - —
Homatropine hydrobromide, 25 oz., bots..oz.37.50 -42.00
Hoofmeal, 17-18% ammon., bulk, f.o.b. Chicago..unit. 3.00 - 3.05
Hops, N.F., bls.....lb. .20 - .21
Horehound, bls.....lb. .13 - .15
Hydrangea root, bls.....lb. .09 - .10
Hydrastine, bots., 4 ozs.....oz.20.00 - —
Hydrochloride, bots., 4 ozs..oz.20.00 - —
Sulphate, bots., 4 ozs.....oz.20.00 - —
Hydrastinine, 15 grs., bots...bot. 1.95 - —
Hydrastis (see Golden seal).
Hydrofuramide, dms., 100 lbs. or more, works..lb. .30 - —
fib. ctns., works.....lb. .40 - —
Hydrogen peroxide, USP, bbls.lb. 100 vols., cbys., E. of Miss. River; West Coast via Panama Canal..lb. .03¾- .04
.16 - .18½
Hydroquinone, dealers, bbls., dms. lb. .90 - .94
Hydroxycitronellal, cns.....lb. 5.90 - 6.05
Hyoscine hydrobromide, bots., gram. 4.50 - —
Hyoscyamine, bots.....oz.37.50 - —
Hydrobromide, bots.....oz.37.50 - —
Sulphate, bots.....oz.37.50 - —
Hypernic, cryst., bgs., No. 1..lb. .42 - —
No. 2..lb. .34 - —
extract, bbls., No. 1.....lb. .24 - —
No. 2..lb. .19 - —

# I

Iceland moss, bls.....lb. .40 Nom.
Ichthyol, bots.....lb. 4.00 - —
Indian red (see Red, Indian).
Indigo, nat., Madras, cs.....lb. 2.14 - 2.20
synth., liq., bbls.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indium metal.....oz.12.50 - —
Indol, CP, bots.....lb.28.00 -30.00
Insect flowers (see Pyrethrum).
Iodine, crude, jars, 25 lbs.....lb. 1.67 - —
kgs., 150 lbs., less 5%, ex whse., Staten Island..lb. 1.38 - 1.44
resubl., bots., 5 lbs.....lb. 2.10 - —
jars, 50 lbs.....lb. 2.00 - —
Iodoform, dms., 100 lbs.....lb. 3.95 - 4.10
jars .....lb. 4.20 - —
Ionone, alpha, bots.....lb. 2.75 - 2.80
beta, bots.....lb. 3.90 - 3.95
Methyl, alpha, 100%, cns...lb. 4.35 - —
Ipecac root, bgs.....lb. 1.50 - 1.55
powd., bxs.....lb. 1.60 - 1.65
Irish moss, ordinary, bls.....lb. .30 - .31
powd., 80-90 mesh, bbls..lb. .35 - .36
prime bleached, bls.....lb. .45 - .46
Iron acetate, N. F., IV, 100-lb. cbys..lb. .15 - —
djns., 50 lbs.....lb. .16 - —
liquor, bbls., c.l., dlvd....lb. .03 - —
l.c.l., dlvd.....lb. .04 - —
Chloride (ferric), tech., anhydr., 390-lb. dms...100 lbs. 4.65 - 6.25
150-lb. dms.....100 lbs. 5.00 - 6.00
cryst., bbls., works, frt. alld. or equald..lb. .05 - .06
kegs, works, frt. alld. or equald..lb. .07½- .08
liquor, cbys., wks., frt. alld. or equald..lb. .05 - .06
USP X, cryst., bbls.....lb. .07½- —
kegs .....lb. .08½- —
solut. cbys., works, frt. alld. or equald..lb. .06½- .07
djns.....lb. .07½- —
Citrate, USP VIII, pearls....lb. .72 - .75
powd., cns.....lb. .84 - .87
scales, cns.....lb. .77 - .80
Glycerophosphate, bbls., bgs., 1,000-lb. lots..lb. 3.30 - —
100-lb. lots.....lb. 3.40 - —
cns., 25 lbs.....lb. 3.52 - —
Hyposulphite, bbls., dms.....lb. 1.50 - 1.60
Iodide, bots.....lb. 3.18 - 3.32
syrup, cbys.....lb. .39 - .40
bots. .....lb. .53 - —
Nitrate, red., tech., dms.....lb. .03½- .04
Oxalate, powd., kgs.....lb. .47 - .49
cns. .....lb. .52 - —
scales, cns.....lb. .82 - .85
Oxide, black, bbls., works...lb. .06 - —
Phosphate, ferric, pearls, cns., 50 lbs..lb. .54 - —
25 lbs.....lb. .57 - —
scales, cns., 50 lbs.....lb. .59 - —
25 lbs.....lb. .62 - —
Pyrophosphate, pearls, cns..lb. .59 - .62
scales, cns.....lb. .64 - .67
Reduced, 90%, cs.....lb. .65 - .75
Sulphate, tech. (see Coppers and ferric sulphate).
Sulphate, USP, cryst., 275-lb. bbls..lb. .04½- —
dms., 100 lbs.....lb. .06½- —
Iron-ammonia citrate, brown, gran., 2,000-lb. lots, dms.. lb. .32 - —
200-lb. lots, dms.....lb. .35 - —
pearls, 2,000-lb. lots, dms.. lb. .32 - —
200-lb. lots, dms.....lb. .35 - —
scales, 2,000-lb. lots, dms.. lb. .40 - —
200-lb. lots, dms.....lb. .47 - —
Prices on green are the same as for brown.
Iron-ammonia oxalate, bbls...lb. .23½- —
dms., kgs.....lb. .25½- —
Iron-soda ovalate, bbls.....lb. .23½- —
dms.....lb. .25½- .26½
Isobutyl acetate, 55-gal. dms., works..lb.0660 - —
tanks, works.....lb.0760 - —
Propionate, dms., works...lb. .102 - —
Isopentane, 50-gal. dms., single, works..gal. .45 - —
10-gal. dms., single, works..gal. .55 - —
Isophorone, dms., works.....lb. .25 - —
Isopropylamine, dms., works...lb. .35 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., 5 gals., E. of Rockies, frt. alld..lb. .12 - —
c.l., E. of Rockies, frt. alld. lb. .08½- —
l.c.l., E. of Rockies, frt. alld..lb. .09 - —
tanks, E. of Rockies, frt. alld..lb. .07½- —
Alcohol (see Alcohol).
Ether, dms., 5 gals., frt. alld., gal. .35 - —
55 gals., c.l., E. of Miss., frt. alld..gal. .35 - —
55 gals., c.l., W. of Miss., frt. alld..gal. .39 - —
l.c.l., E. of Miss., frt. alld., gal. .44 - —
tanks, E. of Miss., frt. alld., gal. .25 - —
W. of Miss., frt. alld., gal. .29 - —

# J

Jaborandi leaves, bls.....lb. .10 - .11
Jalap root, NF, bls.....lb. .55 - .60
powd., bbls., bxs.....lb. .60 - .65
resin, lump, 100-lb. lots, cns.lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .60 - .65

# K

Kamala, tins.....lb. .33 - .34
Kaolin (see China clay).
Kava kava root, bls.....lb. .14 - .16
Kerosene[2] at refinery:—
Bayone, 41-43 w.w., tanks, gal. .0530- —
California (f.e.b. San Francisco), truck..gal. .11½- —
Gulf ports, p.w., bulk.....gal. .07½- —
Louisiana - Arkansas, 41-43 w.w., blk..gal. .04⅝- .04⅝
Oklahoma-Texas, 41-43 w.w., tanks..gal. .04⅝- .04⅝
Pennsylvania, 45 w.w., tanks, gal. .06¼- .06½
Kola nuts, bgs.....lb. .08 - .09

# L

Lady slipper root, bls.....lb. .48 - .50
Lanolin (see Adeps lanae).
Lard, city, tubs.....100 lbs.11.25 -11.35
Middlewestern, trcs....100 lbs.10.40 -10.50
Neutral, trcs.....100 lbs.12.00 -12.25
Western, choice, trcs..100 lbs.10.50 -10.60
Compound, trcs.....100 lbs.16.00 -16.25
Larkspur seed, bgs.....lb. 6.00 - 6.25
Laurel berries, bls.....lb. .25 - .26
Leaves, Greek, bls.....lb. .58 - .59
Portuguese, bls.....lb. .19 - .20
Spanish .....lb. .21 - .21½
Lavender flowers, ordinary, bls.lb. .45 - .50
medium, bls.....lb. .83 - .85
select, bls.....lb. .95 - 1.00
Lead,[5] metal (see paint market).
Acetate, white, broken, bbls. lb. .12 - .12½
cryst., bbls.....lb. .12 - .12½
gran., bbls.....lb. .12¾- .13¼
powd., bbls.....lb. .12¾- .13¼
Arsenate, bls., c.l.....lb. .09 - .11
l.c.l., bgs.....lb. .09½- .11½
Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick-ups.

## Gum, Copal—Lime

Lead, blue, basic sulphate, bbls., c.l., dlvd. E..lb. .06¾- —
dlvd., Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .07 - —
l.c.l., dlvd. E.....lb. .07 - —
Ariz., Cal., Col., Idaho, Mont., Nev., N.M., Ore., Utah, Wash., Wyo..lb. .07½- —
Carbonate (see Lead, white).
Chloride, fib. dms., 100 lbs..lb. .49 - —
Iodide, NF V, powd., 5-lb. bots. lb. 2.80 - —
jars .....lb. 2.60 - —
Linoleate, pale, precip., dms., lb. .19 - —
Metal (see daily quotations in market report).
Metallic, paste, 200-lb. cont., f.o.b. works..lb. .10 - —
5-lb. cont., f.o.b. works....lb. .22 - —
Nitrate, bbls.....lb. .11 - .14
Peroxide, powd., bbls., tech..lb. .23 - —
Oleate, bbls.....lb. .18½- .20
Red, dry, 95% or less $Pb_3O_4$, bbls., c.l. (20 tons), dlvd. Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .0860- —
Other points.....lb. .0835- —
l.c.l., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. Cascade Mts. in Ore. and Wash...lb. .09 - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash. lb. .09½- —
Colo., Mont., N. Mex., Wyo..lb. .09¼- —
other points.....lb. .08¾- —
smaller lots, Ala., etc..lb. .09¼- —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¼- —
97%, $Pb_3O_4$, bbls., c.l. (20 tons), dlvd. Ala., etc..lb. .0885- —
other points.....lb. .0860- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .08¼- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .07½- —
other points.....lb. .09 - —
smaller lots, dlvd. Ala..lb. .09¾- —
Ariz., etc.....lb. .10¼- —
Colo., etc.....lb. .10 - —
other points.....lb. .09¼- —
96%, $Pb_3O_4$, bbls., c.l. (20 tons), dlvd., Ala., etc..lb. .0910- —
other points.....lb. .0885- —
l.c.l., 5 tons, dlvd. Ala., etc..lb. .09½- —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¼- —
smaller lots, dlvd. Ala., etc..lb. .10 - —
Ariz., etc.....lb. .10¼- —
Colo., etc.....lb. .10¼- —
other points.....lb. .09¾- —
in oil, 95% min., 100-lb. kgs. lb. .12¼- —
Resinate, fused, 15%, bbls...lb. .09½- —
pale, bbls.....lb. .11¼- —
Silicate, bgs., 5 tons.....lb. .0675- —
smaller lots.....lb. .0725- —
Stearate, bbls.....lb. .25 - —
Sulphate (see Lead, white basic sulphate).
Nitrate, bgs., or bbls., c.l., basic sulphate, bbls., c.l., (20 tons), works, frt. alld..lb. .10¼- —
l.c.l., 5 tons, one delivery, E., frt. alld..lb. .10¼- —
Pac. Cst., ex whse....lb. .10½- —
smaller lots, E. frt. alld..lb. .10¾- —
Pac. Cst., ex whse....lb. .10¾- —
White, dry, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash. and Wyo..lb. .07¾- —
other points.....lb. .07½- —
l.c.l., dlvd. Ariz., etc...lb. .08 - —
other points.....lb. .07¾- —
basic sulphate, bbls., c.l., dlvd. Ariz., etc.....lb. .07 - —
other points.....lb. .06¾- —
l.c.l., dlvd. Ariz., etc...lb. .07½- —
other points.....lb. .07 - —
in oil, 100-lb. kgs., consumers. lb. .13¼- —
dealers .....lb. .11¾- —
painters .....lb. .12¼- —

Consumers' prices and painters' prices are ½c. lower on orders of 500 lbs. or more.

Lecithin, 100%, cns., f.o.b. N.Y. or Chi..lb. 2.50 - —
edible, grade 1, dms., c.l., same basis..lb. .45 - —
l.c.l., same basis.....lb. .47½- .65
grades 2 or 3, dom., c.l., same basis..lb. .47½- —
l.c.l., same basis.....lb. .50 - .67½
grade 4, dms., c.l., same basis. lb. .50 - —
l.c.l., same basis.....lb. .52½- .70
purified, cs., dms., c.l., same basis..lb. .65 - —
l.c.l., same basis.....lb. .67½- .85
tech., grade 1, dms., c.l., same basis..lb. .35 - —
l.c.l., same basis.....lb. .37½- .55
grade 2 or 3, dms., c.l., same basis..lb. .37½- —
l.c.l., same basis.....lb. .40 - .57½
grade 4, dms., c.l., same basis. lb. .40 - —

Lecithin prices quoted above are for goods packed in 25, 50 or 100-lb. dms. When goods are packed in 500-lb. dms. prices are 1c. per lb. less.

Lemon peel, bls.....lb. .28 - .30
Licorice extract, mass, cs.....lb. No prices
powd., bbls.....lb. No prices
root, natural, bls.....lb. .28 - .30
powder, bbls., bxs.....lb. .32 - .36
select, bdls., cs.....lb. No stocks
Lime, chemical (quicklime), lump or pebble, bulk, f.o.b.:—
Adams, Mass.....ton. 8.00 - —
Bellefonte, Pa.....ton. 7.50 - —
Berkley, W. Va.....ton. 7.50 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa...ton. 6.50 - —
Crab Orchard, Tenn..ton. 6.25 - —
Eagle Mountain, Va..ton. 7.00 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.00 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 6.25 - —
Knoxville, Tenn.....ton. 6.25 - —
Limedale, Ark.....ton. 7.60 - —
Longview, Ala.....ton. 6.25 - —
Manistique, Mich....ton. 8.00 - —

## Lime—Monochlorbenzen

Lime, chemical (quicklime), lump or pebble, bulk, f.o.b.:—
Martinsburg, W. Va.ton. 7.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 6.50 - —
Newala, Ala.....ton. 6.25 - —
Rincon, Cal.....ton.13.00 - —
Ripplemead, Va.....ton. 7.00 - —
Riverton, Va.....ton. 7.00 - —
Rockland, Me.....ton. 8.00 - —
San Francisco, Cal..ton.13.00 - —
Scioto, Ohio.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.00 - —
York, Pa.....ton. 7.50 - —

Hydrated, paper bgs., f.o.b.:—
Adams., Mass.....ton. 8.50 - —
Bellefonte, Pa.....ton. 9.00 - —
Berkley, W. Va.....ton. 9.00 - —
Buffalo, N. Y.....ton.10.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa.....ton. 8.00 - —
Crab Orchard, Tenn..ton. 9.00 - —
Eagle Mountain, Va..ton. 8.50 - —
Farnams, Mass.....ton. 8.50 - —
Gibsonburg, Ohio....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 9.00 - —
Knoxville, Tenn.....ton. 9.00 - —
Le Roy, Minn.....ton.10.00 - —
Lime Crest, N. J....ton. 8.50 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.00 - —
Louisville, Ky.....ton.14.50 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va.ton. 9.00 - —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.00 - —
Pottsley, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. D....ton.12.00 - —
Ripplemead, Va.....ton. 9.00 - —
Rockland, Me.....ton. 9.00 - —
San Francisco, Cal...ton.16.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —

spray, paper bgs., f.o.b.—
Adams, Mass.....ton. 9.50 - —
Bellefonte, Pa.....ton. 9.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.11.00 - —
Lime Crest, N. J....ton. 8.50 - —
Marblehead, Ohio....ton.11.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.11.00 - —
York, Pa.....ton. 9.00 - —

Lime salts (see Calcium).

Lime-sulphur, dry, dealers, bgs., c.l., E. of and incl. N. Dak., S. Dak., Neb., Kans., Okla., Tex..lb. .07½- .08½
dms., same basis.....lb. .10½- —
400 lbs. or more, bgs., same basis..lb. .07¾- .08¾
dms., same basis.....lb. .11 - —
less than 400 lbs., same basis..lb. .08½- .09½
dms., same basis.....lb. .12 - —
Solution, Zone 1, dms., consumers..gal. .16 - —
Zone 2, tanks, dealers, wks. gal. .08½- —
30-50, dms.....gal. .11 - .16
Zone 3, tanks, dealers, dlvd. gal. .07½- —
30-50, dms.....gal. .10½- .14½
Zone 4, tanks, dealers, wks. gal. .08 - —
dms., wks., except Cal.gal. .12 - —
Zone 5, tanks, dealers, dlvd., gal. .10½- —
dms. .....gal. .12 - —
Zone 6, tanks, dealers.....gal. .07½- —
30-50, dms.....gal. .10 - .14

Prices for lime sulphur solution are f.o.b. warehouse points, freight allowed. Zone 1 includes Ga., S. C., Ala., N. C., except the counties of Ashe, Surry, Stokes, Rockingham and Alleghany; Tenn., east of Tenn. river. Zone 2: New England States. Zone 3: Ark., Ohio, Ind., Ill., Ia., Ky., Wis., Minn., Mo. and Tenn. west of Tenn. river; Penn., eastern tier, and W. Va., western tier. Zone 4: West of Rocky Mountains, except southern California, which makes up Zone 5. Zone 6: N. Y. east of Herkimer, N. J., Md., Del., Va., Fa.—all counties lying east of the western boundary of Bedford, Blair, Center, Clinton and Potter, W. Va.—counties of Mineral, Hampshire, Morgan, Berkeley, Jefferson, and Hardy, N. C.—counties of Ashe, Alleghany, Surry, Stokes and Rockingham.

Linalool, cns.....lb. 4.75 - 5.00

Linalyl acetate, 70%, cns.....lb. 5.50 - 6.00
90%, cns.....lb. 6.50 - 6.75
92%, cns.....lb. 7.00 - 7.25

Linden flowers, bls.....lb. .85 - .90
without leaves, bls.....lb. No stocks

Linseed, meal, bgs.....ton.33.00 - —

Litharge, com'l powd., bbls., 20 tons, dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore., and Wash..lb. .0760- —
dlvd. other points.....lb. .0735- —
5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore. and Wash..lb. .08 - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash...lb. .08½- —
Colo., Mont., N. Mex., Wyo..lb. .08¼- —
Other points.....lb. .07¾- —
smaller lots, dlvd.., Ala..lb. .08½- —
Ariz., etc.....lb. .09 - —
Colo., etc.....lb. .08¾- —
Other points.....lb. .08¼- —

Lithium bromide, bbls., 100 lbs., works, frt. equal'd..lb. 1.90 - —
50 lbs., works.....lb. 1.93 - —
25 lbs., works.....lb. 1.95 - —

Carbonate, NF VI, 250-lb. bbls., lb. 1.25 - —
100-lb. kgs. .....lb. 1.30 - —
Chloride, 25-lb. jars.....lb. 1.65 - 1.70
Citrate, 250-lb. bbls.....lb. 1.40 - —
25-lb. dms. .....lb. 1.45 - —
100-lb. kgs. .....lb. 1.40 - —
Fluoride, bbls. .....lb. 2.10 - 2.25
Iodide, 5-lb. bots. .....lb. 5.20 - —
25-lb. jars .....lb. 5.05 - —

Lithopone, titanated (high-strength), bgs., c.l. (20 tons)..lb .05½- —
smaller lots .....lb. .05¾- —
bbls., c.l. (20 tons).....lb. .05½- —
smaller lots .....lb. .05¾- —
ordinary, bgs.. c.l. (20 tons)..lb. .0385- —
smaller lots .....lb. .0410- —
bbls., c.l. (20 tons).....lb. .0410- —
smaller lots .....lb. .0435- —

Lithopone in car lots is ¼c. per lb. higher delivered to the Pac. Cst., and in less car lots is ¼c. higher ex whse. Pac. Cst.

Liverwort, leaves, bls.....lb. .55 - .60

Lobelia, herb, bls.....lb. .50 - .55

Logwood, cryst., bgs., No. 1..lb. .26 - —
No. 2..lb. .26 - —
extract, bbls., No. 1.....lb. .14 - —
No. 2..lb. .13 - —
No. 3..lb. .12½- —
No. 4..lb. .10 - —
solid, bxs., No. 1.....lb. .23½- —
No. 2..lb. .21½- —

Lovage root, dms., bls.....lb. .45 - .50
imported, bls.....lb. No stocks

Lupulin, N. E., tins.....lb. 1.65 - 1.70

Lycopodium, cs. .....lb. 8.50 - 9.00

# M

Mace, Banda, cs.....lb. .56 - .57
Batavia, cs.....lb. .35 - .36
Siauw, cs.....lb. .49 - .50
West Indian, cs.....lb. .55 - .56

Madder, Dutch, bbls.....lb. .22 - .25

Magnesia, arsenate, dms.....lb. .18 - .20

Calcined, tech., USP, bbls., wks..lb. .26 - —

Carbonate, tech., Zone 1, c.l., bgs..lb. .06¼- —
bbls. .....lb. .07½- —
kgs. .....lb. .08¾- —
l.c.l., bgs. .....lb. .07¼- —
bbls. .....lb. .08½- —
kgs. .....lb. .09¾- —
Zone 2, c.l., bgs.....lb. .06¼- —
bbls. .....lb. .07½- —
kgs. .....lb. .08¾- —
l.c.l., bgs. .....lb. .07 - —
bbls. .....lb. .08¼- —
kgs. .....lb. .09¾- —
USP, Zone 1, c.l., bgs.....lb. .08 - —
bbls. .....lb. .08½- —
kgs. .....lb. .09¾- —
l.c.l., bgs. .....lb. .09 - —
bbls. .....lb. .09½- —
kgs. .....lb. .10¾- —
Zone 2, c.l., bgs.....lb. .06¼- —
bbls. .....lb. .08½- —
kgs. .....lb. .09¾- —
l.c.l., bgs. .....lb. .08¾- —
bbls. .....lb. .09¼- —
kgs. .....lb. .10½- —
Other points.....lb. .08 - —
Magnesia:—Zone 1—Mass., Conn., R. I., N.Y., N.J., Pa., D. of C., Del. and Md. c.l. shipments, frt. equald, with Phillipsburg, Ambler, Plymouth Meeting, Valley Forge, and New York. On l.c.l. shipments, frt. alld., including dlvd. storedoor. Magnesia prices are f.o.b. Plymouth Meeting. Zone 2—Balance of U.S.; prices f.o.b. Plymouth Meeting, Ambler, Phillipsburg, Valley Forge, and New York.

Magnesium, chloride, anhyd., dom., bbls., dlvd..lb. .13 - —
flake, dom., bbls., wks., c.l., ton.32.00 - —
l.c.l., bbls., wks.....ton.39.00 -42.00

Hydroxide, med., 200-lb. bbls.lb. .25 - —
25-lb. dms.....lb. .30 - —
100-lb. kgs.....lb. .26 - —

Hypophosphite, cns., 100 lb..lb. 1.45 - —

Oxide (see Calcined).

Palmitate, bbls.....lb. .33 - .35

Peroxide, 15%, dms., works..lb. 1.00 - 1.35

Silicate (see Talc).

Silicofluoride, bbls.....lb. .20 - .25

Stearate, bbls., ctns., 1 ton..lb. .31 - —
smaller lots.....lb. .33 - —

Sulphate (see Epsom salt).

Trisilicate, 1,000-lb. contracts, dms..lb. .37 - —
smaller lots, dms.....lb. .42 - —
cs., 500-lb. lots.....lb. .40 - —
100-lb. lots.....lb. .42 - —
5-lb. cns.....lb. .60 - —

Magnesite, cal., dom., bgs...ton.72.00 -80.00
imports, bgs., duty paid..ton. No prices
dead-burned, dom., bulk, c.l., f.o.b. Chewelah, Wash..ton.22.00 -25.00

Malva flowers, black, bls.....lb. 1.75 - 2.00
blue, bls.....lb. 2.25 - 2.50
Leaves, bls.....lb. .40 - .45

Manaca, root, bls.....lb. .23 - .24

Mandrake root, bls.....lb. .25 - .26

Manganese acetate, dms.....lb. .26½- —
Arsenate, bgs.....lb. .12 - .12½
Borate, tech., bbls.....lb. .15 - .16
Carbonate, bbls.....lb. .19 - —
Chloride, bbls.....lb. .14 Nom.
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works, ton.71.50 - —
5-15 tons, works.....ton.74.50 - —
¼, 4 tons, works.....ton.79.50 - —
Caucasian, 85-90%, bbls., c.l., works..ton.74.00 - —
l.c.l., 5 tons, works.....ton.77.00 - —
smaller lots, works...ton.82.00 - —
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., 5 tons, works...ton.74.75 - —
smaller lots, works..ton.79.75 - —
paper bgs., c.l., works..ton.70.00 - —
l.c.l., 5 tons, works....ton.73.00 - —
Glycerophosphate, bbls., bgs., 1,000-lb. lots..lb. 3.05 - —
100-lb. lots.....lb. 3.15 - —
cns., 25 lbs.....lb. 3.27 - —
Hydrate, bbls., dlvd.....lb. .82 - —
Iodide, bots., 5 lbs.....lb. 5.70 - —
jars, 25 lbs. .....lb. 5.55 - —
Linoleate, liquid, 4%, dms...lb. .18 - .19½
Linoleate, liquid, 4%, dms...lb. .18 - .19½
solid, precip., 8.2%, bbls...lb. .19 - —
Resinate, fused, 3½%, bbls.ton. .08¼- .08½
precip., dms.....lb. .12 - —
Sulphate, anhyd., ton lots, works..lb. .10½- —
single, bbls., works.....lb. .11½- —
fertilizer, 65%, MnSo., bgs., c.l., dlvd., South..ton.57.00 - —
l.c.l., bgs.....ton.65.00 -75.00

Mangrove bark, bgs., shipt...ton.37.00 -38.00

Manna flake, large, cs.....lb. No stocks
small, cs.....lb. 3.45 - 3.50

Mannitol, com'l grade, bbls., ton lots, works..lb. .35 - —
smaller lots, works.....lb. .40 - —
reagent grade, 50-lb. cs., or multiples, works..lb. .85 - —

Marble flour, bgs.....ton.12.50 -14.50

Marjoram, French, No. 1.....lb. .75 - .80
Tunisan, bls.....lb. .48 - .50
Chilean .....lb. .46 - .48

Menthol, natural, cs.....lb.14.00 -16.00
synthetic, USP, cs.....lb. No prices
technical, 60-lb. cs.....lb. 3.00 - —
smaller lots.....lb. 3.10 - 3.25

Menthyl salicylate, tins, 100-lb. lots..lb. 3.00 - —
25-lb lots.....lb. 3.10 - —

Mercurial ointment, 30%, pails, 50 lbs.....lb. 1.44 - —
25 lbs.....lb. 1.46 - —
50%, pails, 50 lbs.....lb. 2.09 - —
25 lbs.....lb. 2.11 - —

Mercury (see Quicksilver).
Ammoniated (see White precipate).
Bichloride (see Corrosive sublimate).
Bisulphate, 5-lb. bots.....lb. 3.02 - —
100-lb. fib., dms., or steel..lb. 2.89 - —
25-lb. jars.....lb. 2.91 - —
Chloride (see Calomel).
Cyanide, cryst.....lb. 4.00 - 4.05
powd. .....lb. 4.00 - 4.05
Iodide, red, NF, 5-lb. bots..lb. 4.66 - 4.71
100-lb. fib. dms.....lb. 4.60 - —
yellow, 5-lb. bots. or tins..lb. 4.76 - 4.81
fib. dms., 100 lbs.....lb. 4.70 - —
Nitrate ointment (see Citrine ointment).
tech. (see Red, mercury oxide).
yellow, tech. (see Yellow, mercury oxide).
NF VI, fib. dms., 50 lbs., or more..lb. 3.38 - —
Oxide, red, NF (see Red precipitate).

Mercury and chalk, 5-lb. ctns..lb. 1.98 - —
25-lb. fib. dms.....lb. 1.86 - 1.88

Mesityl oxide, dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —

Metal leaf, Japanese, pkgs. of 20 books (500 leaves), aluminum, 5½x5½ in..pkg. 2.50 - —
composition, 5½x5½ in.....pkg. 3.00 - —
gold, XX, deep, 23K, 3⅜x3⅜ in. pkg.15.00 - —
silver, 3⅜x3⅜ in.....pkg. 3.00 - —

Metanitroparatoluidin, bbls....lb. 1.05 - 1.10

Metaphenylenediamine, kgs....lb. .65 - —

Metatoluylenediamine, kgs....lb. .70 - —

Methanol, natural, [1,8,9] producer group A, all grades, E. of Miss. R., tanks..gal. .60 - —
dms., c.l.....gal. .66 - —
l.c.l .....gal. .76 - —
Methanol prices W. of Miss. R. are 3c. per gal. higher.

Natural, group B, pure, tanks, frt. alld., Zone 1..gal. .50 - —
Zone 2.....gal. .52 - —
Zone 3.....gal. .54 - —
Zone 4.....gal. .54½- —
dms., c.l., Zone 1.....gal. .55½- —
Zone 2.....gal. .57½- —
Zone 3.....gal. .59½- —
Zone 4.....gal. .61½- —
l.c.l., Zone 1.....gal. .58½- —
Zone 2.....gal. .75½- —
Zone 3.....gal. .62½- —
Zone 4.....gal. .75½- —
Group B, 90%, frt. alld., prices 2c. more than pure, all zones.
97%, frt. alld., prices 1c. more than pure, all zones.

Natural methanol sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H.; N. J.; N. Y., N. C., Ohio, Tenn., R. I., Vt., Va., W. Va., Wisc.; zone 2, Ala., Ark, Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo.; zone 3, Los A., San Fran., Seattle, Wash., Portland, Ore.; zone 4, Ariz., Cal., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash.

Synthetic, [2, 5, 6] pure, dms., c.l., Zone 1, frt. alld....gal. 34½- —
2, frt. alld.....gal. .36½- —
3, frt. alld.....gal. .38½- —
4, frt. alld.....gal. .40½- —
dms., l.c.l., Zone 1, frt. alld. or dlvd..gal. .37 - —
2, frt. alld. or dlvd..gal. .44½- —
3, dlvd., S. F. and L. A. gal. .41 - —
4, frt. alld. or dlvd..gal. .52½- —
tanks, Zone 1, frt. alld....gal. .28 - —
2, frt. alld.....gal. .30 - —
3, frt. alld.....gal. .32 - —
4, frt. alld.....gal. .32½- —

Synthetic methanol sales zones are:—Zone 1, Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H. N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis.; Zone 2, Ala., Ark. Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo.; Zone 3, Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore., and Seattle, Wash.; Zone 4, Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Methyl acetate, 97-99%, dms., c.l., E. of Miss. R..lb. .10½- .12
W. of Miss. R.....lb. .11½- .13
l.c.l., dms., dlvd., E. of Miss. R..lb. .11 - .12½
W. of Miss. R.....lb. .12 - .13½
tanks, dlvd. E. of Miss. R.lb. .09½- —
W. of Miss. R.....lb. .10½- —
tech., dms., c.l., dlvd. E. of Miss. R..lb. .07 - .09
W. of Miss. R.....lb. .08 - .10
l.c.l., dlvd. E. of Miss. R. dlvd. W. of Miss R...lb. .07½- .09½
tanks, dlvd. E. of Miss. R. lb. .06 - —
W. of Miss. R.....lb. .07 - —

Acetoacetate, dms., c.l., works, frt. alld..lb. .29½- —

Acetone, natural, group A producers, E. of Rockies, frt. alld., tanks..gal. .75 - —
dms., c.l., same basis.....gal. .81 - —
l.c.l., same basis....gal. .86 - —

Methyl acetone prices on Pacific Coast are 3c. per gal. higher on tanks and 4c. per gal. higher on drums, car lots.

Methyl acetone, natural, group B, producers, tanks, Zone 1.gal. .60 - —
Zone 2.....gal. .62 - —
Zone 3.....gal. .64 - —
Zone 4.....gal. .64½- —
dms., c.l., Zone 1.....gal. .65½- —
Zone 2.....gal. .67½- —
Zone 3.....gal. .69½- —
Zone 4.....gal. .71½- —
l.c.l., Zone 1.....gal. .68½- —
Zone 2.....gal. .85½- —
Zone 3.....gal. .72½- —
Zone 4.....gal. .85½- —

Natural methyl acetone sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., Tenn., Vt., Va., W. Va., Wis. Zone 2, Ala., Ark , Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3, Los A., San Fran., Seattle, Wash.; Portland, Ore. Zone 4, Ariz., Cal., Mont., Nev., N. Mex., Ore., Utah, Idaho, Wash.

Methyl acetone, synthetic tanks, Zone..gal. .42 - —
Zone 2.....gal. .44½- —
Zone 3.....gal. .45½- —
Zone 4.....gal. .45½- —

Methyl acetone, dms., c.l., Zone 1 gal. .51 - —
Zone 3.....gal. .53½- —
Zone 4.....gal. .54½- —
l.c.l., Zone 1.....gal. .54½- —
Zone 2.....gal. .57 - —
Zone 3.....gal. .58 - —
Zone 4.....gal. .59½- —

Alcohol (see Methanol).

Anthranilate, 100-lb. lots....lb. 2.20 - —
25-lb. lots, bots.....lb. 2.35 - —

Benzoate, cns., 25 lbs.....lb. 1.10 - 1.15

Chloride, refrigeration, 500 lbs. and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 490 lbs., cyl., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers, cyl..lb. .40 - —
tanks, multi-unit, mach. mfrs. and jobbers..lb. .31 - —
service men and consumers..lb. .35 - —

Methyl chloride quotations are spot or contract, effective July 1, for delivery to any common carrier point in United States. Prices above are in 60, 90 and 180-lb. cylinders. Prices on the 20-lb. cylinders are uniformly 10c. per pound higher than above prices.

Cinnamate, bls.....lb. 1.50 - 4.00
Formate, dms.....lb. .89 - —
Lactate, dms., l.c.l., dlvd...lb. .70 - —
Iodide, bots.....lb. 4.00 - 4.15

Methyl, salicylate, dms.....lb. .35 - .37
cns. .....lb. .37 - .40
Molybdated[3] violet toner, bbls. lb. .35 - —

Methylamyl ketone, dms., works, c.l.,l.c.l..lb. .25 - —
smaller containers, same basis, lb. .28 - —

Methylcellulose, dms., 2,000 lbs. or more, works..lb. .50 - —
100 to 1,999 lbs., works..lb. .55 - —
1 to 99 lbs., works.....lb. .60 - —

Methylcyclohexane, 98-100%, dms., works..lb. .16 - —

Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —

Methylcyclohexanone, 98 - 100%, dms., works..lb. .32 - —

Methylene blue, medcl., kgs., 100 lbs..lb. 2.00 - —
cns., 5 lbs.....lb. 2.35 - —
Chloride, dms., f.o.b. works..lb. .18 - .22

Methylethyl ketone, dms., c.l., frt. pd. E. of Rocky Mts., lb. .09 - —
l.c.l., same terms.....lb. .09½- —
tanks, same terms.....lb. .08 - —

Methylhexyl ketone, dms., tech., works..lb. .60 - —

Methylisobutyl ketone, dms., c.l., dlvd..lb. .12 - —
l.c.l., dlvd.....lb. .12½- —
tanks, dlvd.....lb. .11 - —

Methylnaphthyl ketone, dom., cryst., cns..lb. 3.00 - 3.10

Metronite pigment, 120 mesh, containers extra, c.l., f.o.b. Milwaukee..ton. 9.00 - —
l.c.l., same basis.....ton.11.00 - —
180 mesh, containers extra, c.l., same basis..ton.11.00 - —
l.c.l., same basis.....ton.13.00 - —
250 mesh, containers extra, c.l., same basis..ton.12.00 - —
l.c.l., same basis.....ton.14.00 - —
325 mesh, containers extra, c.l., same basis..ton.15.00 - —
l.c.l., same basis.....ton.17.00 - —
400 mesh, containers extra, c.l., same basis..ton.17.50 - —
l.c.l., same basis.....ton.19.50 - —

Mica, dry grd., amber, No. 1, quality, c.l..ton.30.00 - —
l.c.l., 5,000 lbs.....ton.40.00 - —
1,000 lbs.....lb. .02 - —
500 lbs.....lb. .02½- —
100 lbs.....lb. .03 - —
refined, c.l.....ton.20.00 - —
l.c.l., 5,000 lbs.....ton.30.00 - —
paint, c.l.....ton.55.00 - —
l.c.l., 5,000 lbs.....ton.65.00 - —
white, No. 1 quality, c.l...ton.35.00 - —
l.c.l., 5,000 lbs.....ton.45.00 - —
1,000 lbs.....lb. .02½- —
500 lbs.....lb. .03 - —
roofing, c.l.....ton.29.00 - —
l.c.l., 5,000 lbs.....ton.39.00 - —
paint, c.l.....ton.60.00 - —
l.c.l., 5,000 lbs.....ton.70.00 - —
wet grd., paint or lacquer, c.l..lb. .04½- —
l.c.l. .....lb. .05 - —
paper, wall or coated, c.l.lb. .04½ - —
l.c.l. .....lb. .05 - —
rubber, c.l.....lb. .04¾- —
l.c.l. .....lb. .04¾- —
biotite, c.l.....lb. .03¾- —
l.c.l. .....lb. .04¼- —

Mica, dry grd., is quoted in bags at the works; wet grd. mica in carload lots is frt. alld. E., and in less carload lots ex whse. or frt. alld. E. Prices of the wet grd. are ½c per lb. higher west of the Mississippi.

Milk, powder, skimmed, roller, bbls., c.l..lb. .14½- —
l.c.l. .....lb. .15½- —
spray, bbls., c.l.....lb. .14½- —
l.c.l. .....lb. .15½- —
unskimmed, roller, bbls., c.l., lb. .27 - —
l.c.l. .....lb. .27½- —
spray, bbls., c.l.....lb. .27 - —
l.c.l. .....lb. .27½- —

Millet seed, yellow, bgs.....lb. .03 - .03½
early fortune, bgs.....lb. .03 - .03½
hulled, bgs.....lb. .07 - .07½

Mineral spirits (see Petroleum thinners and VM & P naphtha).

Molasses, blackstrap, tanks, f.o.b. No. Atlantic ports..gal. .16 - .17
f.o.b. Gulf ports.....gal. .16 - .20

Molybdate orange (see Orange, molybdate).

Molybdenum metal, kgs., 99%, powd..lb. 2.60 - 3.00

Molybdenum, trioxide, pure, kgs., basis Me. content, works..lb. .95 - —
technical, kgs., basis Mo. content, works..lb. .80 - —

Monoamylamine, dms., basis 100%, c.l., wks..lb. .50 - —
l.c.l., works.....lb. .53 - —

Monoamylnaphthalene, l.c.l., dms., works..lb. .17 - —

Monobutylamine, dms., basis 100%, c.l., wks..lb. .37 - —
l.c.l., works.....lb. .40 - —

Monoethanolamine, dms., c.l., works..lb. .24 - —
l.c.l., dms.....lb. .25 - —
tanks .....lb. .23 - —

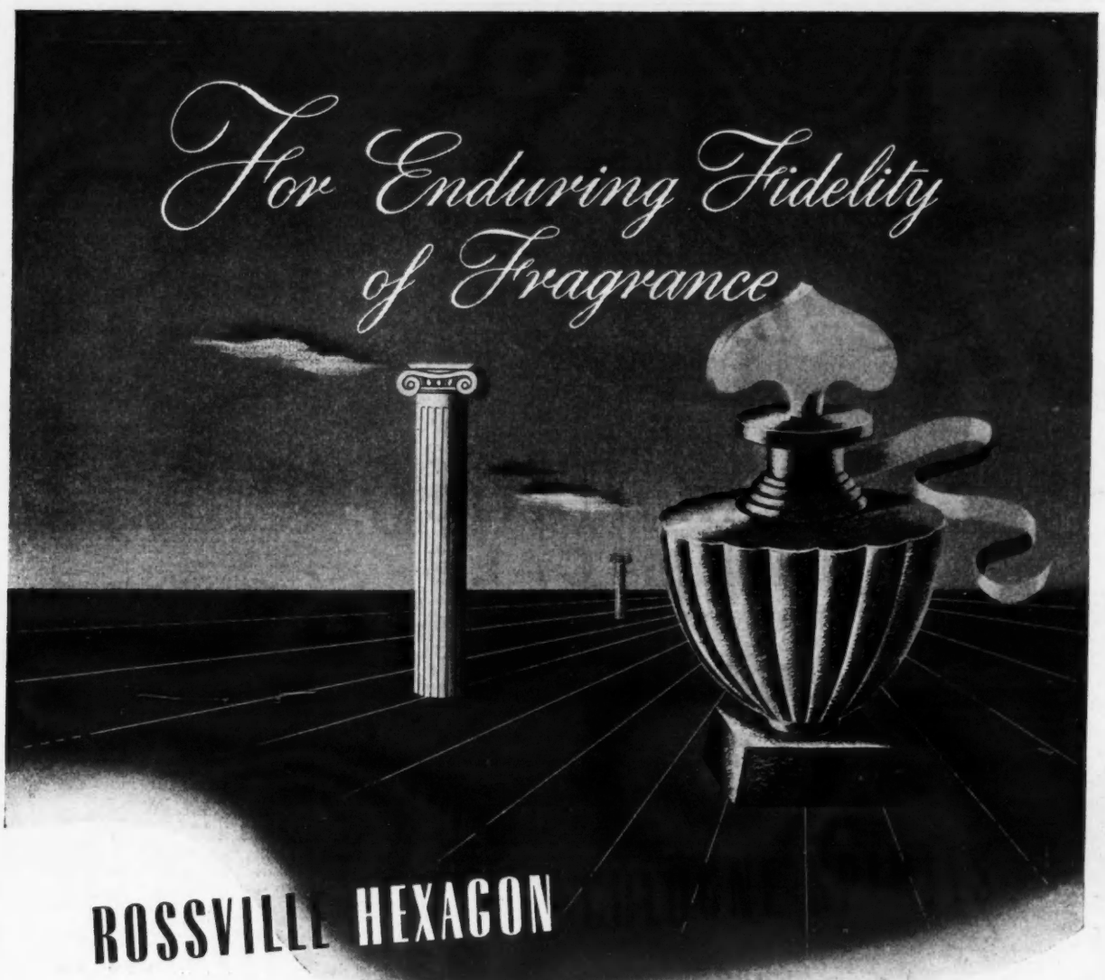
Monoethylamine, basis 100%, dms., c.l., works..lb. .32 - —
l.c.l., works.....lb. .35 - —

Monochlorobenzene, dms., l.c.l. lb. .07 - —
smaller, cns.....lb. .08 - .09

Monoethylaniliin, dms.....lb. .47 - —
Monomethylamine, dms., c.l., l.c.l., dlvd.....lb. .65 - —
Monomethylpara-aminophenol-sulphate, dms..lb. 3.75 - 4.00
Monosodiumphosphate (see Soda phosphate monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
bots., 25 ozs.....oz. 8.80 - —
Ethylhydrochloride, bots., 5 ozs., oz.10.75 - —
...s., 25 ozs.....oz.10.55 - —
Morphine, hydrobromide, 5 ozs., oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Hydrochloride, powd., 5-oz. bots. oz. 9.00 - —
25-oz. cans.....lb. 8.80 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., 55 gals., l.c., works..lb. .67 - —
smaller containers, works....lb. .75 - —
Mullein leaves, cans.....lb. .15 - .16
flowers, cns.....lb. 1.50 - 1.55
Musk, nat., Tonquin, grains, bots..oz.30.00 -35.50
synth., ambrette, cns., 100 lbs. or more..lb. 3.75 - —
5 lbs. to 75 lbs.....lb. 3.85 - —
1 lb.....lb. 4.20 - —
ketone, cns., 100 lbs. or more, lb. 3.90 - —
5 lbs. to 75 lbs.....lb. 4.00 - —
1 lb.....lb. 4.35 - —
Musk, xylol, cns., 100 lbs. or more..lb. 1.15 - —
5 lbs. to 75 lbs.....lb. 1.25 - —
1 lb.....lb. 1.55 - —
Musk root, bls.....lb. 2.45 - 2.50
Mustard seed, California, brown, lb. .16 - .16½
yellow, bgs.....lb. .12½- .13
Chinese, yellow, bgs.....lb. .07½- .08
Danish, yellow.....lb. .27 - .28
Montana, yellow, bgs.....lb. .07½- .08
Roumanian, yellow.....lb. .14½- .15
Washington, yellow, bgs.....lb. .07½- .08
Myrobalans, J1, bgs., f.a.s...ton. No prices
J2, bgs., f.a.s. .....ton. No prices
Extract, liquid, 25%, bbls....lb. No prices
solid, 50%, bbls.....lb. No prices
powdered, bbls.....lb. No prices

## N

Naphtha, Painters (see Petroleum, naphtha, V. M. & P.).
Solvent (see S).
Naphthalene,[4] crude, dom., 74 deg., tanks, works...100 lbs. 2.50 - 2.75
78 deg., tanks, works..100 lbs. 2.75 - 3.00
Refined, balls or flakes, bbls., wholesalers and jobbers, f.o.b. works..lb. .08 - —
50-lb. cs., same basis....lb. .08¼- —
pkgs. (16 oz.), same basis..lb. .08½- —
(12 oz.), same basis....pkg. .07 - —
Nerolin, cryst., cns.....ub. 1.70 - 2.00
Nickel carbonate, bbls.....lb. .36 - .36½
Chloride, bbls.....lb. .18 - .20
Cyanide, 100 lbs., dms.....lb. 1.40 - —
25-lb. bot.....lb. 1.50 - —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .13 - .13½
Nicotine, sulphate, 40%, dms., works, frt. alld..lb. .703 - —
10-lb. tins.....lb. .86½- —
Niger seed, bgs.....lb. .20 - .21
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l. lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½, and 40 sec. vis., bbls., wks. lb. .28 - —
bronzing, 20, 40, 70 sec. vis., bbls., works..lb. .29 - —
ester, soluble, 30-35, ¼, ½ sec., bbls., c.l., dry weight, works..lb. .22 - —
l.c.l., ¼, ½ sec., bbls., dry weight, works..lb. .26 - —
5-6, 15-20, 30-40, and 60-80 sec., bbls., c.l., dry weight, works..lb. .20 - —
l.c.l., 5-6, 15-20 sec., high vis., bbls., works..lb. .25 - —
Lacquer, 20-30 and 60-80 sec., vis., bbls., works..lb. .29 - —
Nitrocellulose prices are quoted on the basis of dry weight; denatured alcohol used in manufacture is charged extra. Barrels are to be paid for extra, but are returnable.
Nitroethane, l.c.l., dms..works.lb. .25 - —


Unsurpassed in purity, clarity, and freedom from any foreign odor—even after prolonged aging—Rossville Hexagon Cologne Spirits develop and preserve the most delicate fragrance of the finest perfumes. It is acknowledged by users of fine alcohols as *the* product of supreme quality.

Rossville Hexagon Cologne Spirits is made exclusively from grain. Exacting scientific control of all the production and purification processes guarantees its high quality and absolute uniformity. For the very best in alcohol, specify Rossville Hexagon Cologne Spirits—first choice of leading cosmetic manufacturers.

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17 East 42nd Street, New York, N. Y.

ROSSVILLE ALCOHOLS • BUTYL STEARATE • ACETONE • AMINO METHYL PROPANEDIOL


## Monoethylan.—Oil, Grapefruit

Nitrogen solution, nitrogen basis, tanks, f.o.b. Atlantic and Gulf ports..unit-ton.1.2158- —
Nitrogenous fertilizer material, dom., 10% ammon., bulk, f.o.b. Carrollville, Wis., dlvd..unit-ton. 2.25 - —
Chemical, Ill.....unit-ton. 2.25 - —
East Coast producing points unit-ton. 2.75 - 3.00
import, bgs., c.i.f. Atlantic, ports, shipt..unit-ton. No prices
Nitromethane, l.c.l., dms., works. lb. .25 - —
Nitronaphthalene, bbls.....lb. .24 - .25
Nitropropane I, l.c.l., dms., works lb. .25 - —
II, same basis.....lb. .25 - —
Nutgalls, Aleppo, bgs., oz.....lb. .27 - .28
Chinese .....lb. .30 Nom.
Extract (see Gall extract).
Nutmegs, E. I., 80s, bgs., cs..lb. .28 - .29
110s, bgs., cs.....lb. .24 - .25
small, grinding, bgs.....lb. .21 - .22
West Indian, bgs.....lb. .21 - .22
Nux vomica, bls.....lb. .08 - .09
powd., bbls., bxs.....lb. .11 - .12

## O

Oakbark extract, 25% tan., bbls., c.l., works..lb. .03½ Nom.
l.c.l., bbls., works.....lb. .05¾ Nom.
tanks .....lb. .02 Nom.
Ocher (see Yellow).
Octane,[2] 100-140° C., industrial grade, dms., c.l., G. 3, gal. .15½- —
l.c.l., G.3.....gal. .29 - —
10 gals., G.3.....gal. .55 - —
tanks, G.3.....gal. .13 - —
Octanol, normal, tech., 360-lb. dms., dlvd..lb. .85 - —
Oil, almond, bitter, artif. (see Benzaldehyde)
natural, U.S.P., bots.....lb. 3.50 - 3.75
sweet, true, exp., dms., cns. lb. 2.35 - 2.45
Amber, crude, cns.....lb. No stocks
ref'd, cns.....lb. No stocks
Amyris, cns.....lb. 3.75 - 4.00
Angelica, root, bots.....lb. 115.00-120.00
seed, bots.....lb. 120.00-125.00
Anilin (see A).
Anise, USP, cns., dms.....lb. 2.00 Nom.
Apricot, kernels, cns.....lb. .40 - .43
Avocado, cns., dms.....lb. 1.00 - 1.25
Bay, W. I., 50-55% phenols, cns..lb 1.25 - 1.50
55-66% phenols, cns.....lb. 1.35 - 1.60
Bergamot, artif., cns.....lb. 2.75 - 9.25
natural, coppers.....lb.32.00 -35.00
Birch (see Oil, sweet, birch).
Brchtar, crude, cns.....lb. .90 - —
rect'fd., cns.....lb. 1.50 - —
Bois de Rose, Brazil, cns....lb. 4.50 - 4.75
Mexican (see Linaloe, wood).
Bone, dms., works.....gal. .65 - .75
Cade, USP IX (see Oil Juniper tar).
Cajeput, tech., dms.....lb. 1.75 Nom.
USP, IX, cns.....lb. No prices
USP, X, cns.....lb. No prices
Calamus, cns.....lb. No stocks
Camphor, sassafrassy, cns...lb. .42 - .43
dms. .....lb. .40 - .41
white, cns.....lb. .45 - .46
dms. .....lb. .43 - .44
Cananga, native, cns.....lb.13.50 -14.00
rectified, cns.....lb.14.50 -15.00
Capsicum (oleoresin), USP VIII, cns..lb. 3.85 - 3.90
Caraway, USP, cns.....lb.15.00 -16.00
Cardamom, bots.....lb.30.00 -35.00
Cassia, USP, cns.....lb.10.00 Nom.
Castor,[1] blown, one-way dms., c.l..lb. .14 - —
l.c.l. .....lb. .14¾- —
cold pressed, USP, bbls., cl., lb. .12¾- —
l.c.l. .....lb. .13¼- —
cns. (1-gal.), l.c.l.....lb. .16¼- —
cns. (5-gal), l.c.l.....lb. .14½- —
dms. (returnable), c.l...lb. .12½- —
l.c.l. .....lb. .13¼- —
tanks .....lb. .11¼- —
dehydrated, dms., c.l.....lb. .1690- —
l.c.l. .....lb. .1730- —
tanks .....lb. .16 - —
extracted, No. 3, tech., bbls., c.l...lb. .12¼- —
l.c.l. .....lb. .13 - —
dms. (returnable), c.l.....lb. .12¼- —
l.c.l. .....lb. .13 - —
tanks .....lb. .11¼- —
sulphonated, 50% (43% fat), dms., c.l..lb. .08¼- —
l.c.l. .....lb. .09¼- —
75% (63% fat), dms., c.l..lb. .11 - —
l.c.l. .....lb. .12 - —
80% (68% fat), dms., c.l..lb. .11½- —
l.c.l. .....lb. .12½- —
Cedarleaf, cs.....lb. 1.10 - 1.40
dms. .....lb. .98 - 1.35
Cedarwood, Southern, dms...lb. .75 Nom.
Celery, bots.....lb.30.00 -35.00
Chaulmoogra, USP, cns.....lb. .68 - —
Chinawood, dms.....lb. .36 - .37¼
tanks .....lb. .35 - .35¾
Pacific Coast, tanks.....lb. .34¾- .35¼
Cinnamon, bark, bots.....lb. 11.00 -32.00
leaf, dms.....lb. 2.00 Nom.
Citronella, Ceylon, cns.....lb. 1.05 Nom.
dms. .....lb. 1.00 Nom.
Java, cns., dms.....lb. 1.15 Nom.
Clove, makers, USP, cns....lb. 1.45 - 1.50
dms. .....lb. 1.40 1.45
Coconut, Manila, crude, tanks, lb. .09¼- .10
edible, 76°, ref, dms., l.c...lb. .15½- —
Cod, Newf., dms.....gal. .78 - .80
Codliver, med., USP.....bbl.85.00 -90.00
Coriander, bots.....lb.25.00 -30.00
Corn, crude, tanks, works....lb. .12 - —
refd., bbls.....lb. .15 - —
Cottonseed, cooking, bbls....lb. .15¾- —
salad, bbls.....lb. .16 - —
Creosote (see C).
Croton, N.F., cns.....lb. 3.00 - 3.25
Cubeb, USP, cns.....lb. 3.75 - 8.50
Crude (see Petroleum, crude).
Cumin, bots.....lb. 8.00 -12.00
Cypress, bots.....lb.12.00 - —
Degras (see D).
Dill seed, bots.....lb. No stocks
weed, bots.....lb. 7.00 - 7.25
Dip (see D).
Erigeron, cns.....lb. 2.25 - 2.35
Eucalyptus, cns.....lb. .75 - .80
dms. .....lb. .70 - .75
Fennel, sweet, cns.....lb. 2.50 - 2.75
Gaultheria (see Oil, wintergreen leaf)
Geranium, Algerian, rose, cns. lb.17.00 -18.00
Bourbon, cns.....lb.17.00 -18.00
Turkish (see Palmarosa).
Grapefruit, cns.....lb. 1.65 - 2.65

## Oil, Grapeseed—Olivine

Oil, grapeseed, dom., dms.....lb. .35 - .36
imported, dms. .....lb. .20 - .25
Ginger, dist., bots.....lb.20.00 -21.00
Guaiac wood, concrete, bots.lb. 4.50 - 4.75
Halibut liver, ref., dms....gal.75.00 Nom.
Hemlock, cns. .....lb. .95 - 1.15
Juniper, berry, cns.....lb.15.00 -20.00
wood, tech., cns.....lb. No stocks
**Juniper tar, USP XI, dms...lb. .80 - .95**
Lard, common, 1, bbls.....lb. .13½- —
2, bbls.....lb. .13¼- —
extra, bbls.....lb. .14¼- —
1, bbls.....lb. .13¾- —
Lard, winter, strained, bbls..lb. .14½- —
prime, burning, bbls.....lb. .15 - —
prime, ined., bbls.....lb. .14¾- —
**Laurel, bots.....lb. 5.00 Nom.**
**Lavandin, cns., 25 lbs.....lb. No stocks**
**Lavender, flower, French, cns. lb. 7.75 -11.25**
**garden, cns.....lb. .55 - .70**
**spike, Spanish, tech., cns..lb. 2.85 - 3.10**
**dms. .....lb. 2.75 - 3.00**
**Lemon, Calif., cns.....lb. 3.25 - —**
**Messina, coppers, cns.....lb. 5.50 Nom.**
**Terpeneless, Type 1.....lb.10.75 -17.00**
**Type 2.....lb. 8.50 -15.00**
**Uruguay, 10 kilo cans.....lb. 5.50 - 5.75**
**Lemongrass, native, cns., dms. lb. 3.00 Nom.**
Lime, dist., cns.....lb. 8.50 - 9.00
expressed, cns.....lb.12.50 -12.75
**Terpeneless .....lb.46.50 -78.00**
**Lignaloe, wood, Mexican, cns. ons..lb. 3.50 - 3.75**
Brazilian (see Bois de rose).

Oil, linseed, raw, dms., c.l.....lb. .1110- —
l.c.l., 10 to 69.....lb. .1130- —
5 to 9.....lb. .1170- —
less than 5.....lb. .1190- —
tanks .....lb. .1020- —
**boiled linseed oil .004 cent over raw.**
Lovage, extra fine, bots.....lb.85.00 - —
**Lubricating,[3] at refinery, ex tax, California, neutrals, pale, 200-600 vis., 2¼- 4, tanks, gal. .07¼- .11**
**red, 200-900 vis., 4-6½ plus, tanks..gal. .07¼- .11½**
Group 3, bright stocks, 100-210 D, 0-25 pour, tanks..gal. .19½- .24½
**neutral, 150-400 vis., 2-2½, 0-10 pour, tanks..gal. .12¼- .17¾**
200-280 vis., 3, 15-25 pour, tanks..gal. .12 - .14¼
**Pennsylvania[3], bright stocks, 3 color, 140-150 vis., 10-25 pour, tanks..gal. .25 - .30½**
**cylinder oils, 600-630 flash, tanks..gal. .16 - .18**
**600-650 steam ref'd, tanks.. gal. .15 - .16½**
neutral, 70° F., 3 color, 150 vis., 0-25 pour, tanks..gal. .31 - .33½
**200 vis., 0-25 pour, tanks. gal. .33- .40½**
Mace, dist., cns., dms.....lb. 2.50 - 2.60
**Mandarin, Brazilian, cns.....lb. 8.00 - —**
Italian, coppers.....lb.15.00 -Nom.
**Menhaden, crude, tanks, Balto. gal. .60 - —**
ref'd alkali, ret. dms.....lb. .1160- .1220
kettle-bodied, ret. dms....lb. .1260- .1320
light-pressed, ret. dms....lb. .1060- .1120
tanks .....lb. .1000- —

Oil, mineral, white (see Oil, white mineral).
**Mustard, artif., USP, bots., cns., lb. 1.50 - 1.60**
**dist., natural, bots.....lb. 9.50 -10.00**
Neatsfoot,[6] 15° c.t., bbls...gal. 1.90 - —
20°, bbls.....gal. 1.80 - —
30°, bbls.....gal. 1.60 - —
extra, bbls.....lb. .14 - —
1, bbls.....lb. .13¾- —
prime, bbls.....lb. .14½- —
pure, bbls.....lb. .17¾- —
**Neroli, bots.....lb.200.00 375.00**
Nutmeg, dist., cans, lms....lb. 2.50 - 2.60
Oiticica, liquid, dms.....lb. .22½- .23½
tanks .....lb. .22 - .23
**solid, dms.....lb. .21 - —**
Oleo, 1, bbls.....lb. .13¼- —
2, bbls.....lb. .13 - —
**Olibanum, bots.....lb. 5.00 - 5.25**
Olive, denat., dms.....gal. 4.00 - 4.25
edible, Calif., dms.....gal. 5.00 - 5.30
imported, dms.....gal. 5.50 - 5.85
foots, dms.....lb. .18 - .19
Sulphonated, 50% (40% fat), dms., c.l...lb. No prices
l.c.l. .....lb. No prices
75% (63% fat), dms., c.l...lb. No prices
l.c.l. .....lb. No prices
80% (68% fat), dms., c.l...lb. No prices
l.c.l. .....lb. No prices
Orange, sweet, dist., cs.....lb. 1.70 - —
expressed, Calif., cns.....lb. 3.00 - —
Argentine, 10-kilo cns....lb. 3.00 - 3.25
Brazilian, cns.....lb. 2.85 - 3.10
Florida, cns.....lb. 2.85 - 2.90
Messina, USP, coppers...lb. 8.00 Nom.
West Indies, cns.....lb. 4.75 - 6.00
terpeneless .....lb.35.00 -175.00
**Origanum, cs. .....lb. 2.85 - 2.90**

Oil, palm, Niger, dms.....lb. .09 - .10
Sumatra, tanks.....lb. .09 - —
distant, ship't, bulk.....lb. .06 - —
Palmarosa, cns.....lb. 4.00 Nom.
Paraffin,[3] 320° flash, 60-70 vis., tanks, G. 3..gal. .05½- —
350° flash, 70-80 vis., tanks, G. 3..gal. .05½- —
80-85 vis., bbls., extra, Ind. refy..gal. .12 - —
100-105 vis., bbls, extra, Ind., refy..gal. .14 - —
300° flash, 100-110 vis., tanks, G. 3..gal. .05¾- —
Patchouli, bots., cns.....lb. 5.50 - 6.00
Peanut, crude, tanks, mill...lb. .13 - —
refd., edible, bbls.....lb. .16 - —
Pennyroyal, d n., cns.....lb. 2.50 - 2.65
import, cns.....lb. 2.40 - 2.50
Peppermint, natural, cns., dms. lb. 7.00 - 7.25
redist., USP, cns., dms.....lb. 7.25 - 7.50
Perilla, dms.....lb. .22½- .23
tanks .....lb. .21½- —
Petitgrain, Paraguay, cns...lb. 1.70 - 1.75
dms. .....lb. 1.65 - 1.70
Pimento berry, cns.....lb. 4.25 - 8.50
leaf, cns.....lb. 2.25 - 2.75
Pine, dest. dist., straw-color, dms., divd., E. ports..gal. .65 - —
steam-dist., dms.....gal. .65 - 1.00
**Pineneedle, Siberian, cns...lb. 2.60 - 2.70**
**Putty,[2] bbls., E. Segundo, Richmond, Cal..gal. .22½- —**
contracts .....gal. .19½- —
Whiting, Ind.....gal. .28 - —
dms., c.l., Boston, Providence, gal. .25 - —
l.c.l., same basis.....gal. .27 - —
tanks, same basis.....gal. .18 - —
Martinez, Cal.....gal. .28 - —
Rapeseed, tax incl., dms....lb. .15¼- .15½
tax not incl., tanks.....lb. .10 - —
blown, dms.....lb. .17½- .18
Red, dist., or saponif., dms., divd..lb. .12 - .13
tanks, divd.....lb. .11¼- —
West coast prices one cent higher.
**Rose, synth., bots.....lb. 4.00 -60.00**
**natural, coppers.....oz.28.00 -30.00**
Rosemary, Spanish, cns.....lb. 1.85 - 1.90
dms. .....lb. 1.80 - 1.85
**Rosin, 1s, rectified, dms....gal. .48 - —**
**2d rectified, dms.....gal. .50 - —**
**3d rectified, dms.....gal. .54 - —**
**Rue, bots.....lb. 7.25 - —**
**Sage, cns.....lb. 2.10 - 2.20**
**Sandalwood, domestic, distilled, UP, cns..lb. 5.85 - 6.00**
Mysore, cns., case lots.....lb. 6.00 - 6.25
Sardine, crude, fut., tanks, Pac. Cst..gal. .60 - —
refd., alkali, ret. dms.....lb. .1160- .1220
kettle-bodied, ret. dms....lb. .1290- .1320
**light, pressed, ret. dms...lb. .1060- .1120**
**tanks .....lb. .1000- —**
**Sassafras, artif., cns.....lb. No prices**
**natural, dom., cns., dms...lb. 1.05 - 1.20**
**Savin, cns..... .....lb. No stocks**
**Savory, cns..... .....lb. No stocks**
**Seal, tanks.....gal. .72 - —**
**Shark liver, crude, dms..million vitamin units. No prices**
**Shingle stains, bbls., c.l., works. gal. .19 - —**
l.c.l., works.....gal. .20 - —
**tanks, works.....gal. .14 - —**
**Snakeroot, Canada, cns.....lb. 8.50 -10.00**
Soybean, dom., crude, dms..lb. .12½- —
tanks .....lb. .11¾- —
refd., dms.....lb. .13½- .14½
tanks .....lb. .12¾- .13¼
Spearmint, dms.....lb. 2.25 - 3.50
**Sperm[3], bleach, 38°, dms....lb. .1270- —**
**45°, dms.....lb. .1200- —**
**natural, dms.....lb. .1150- —**
Spruce, cns., dms.....lb. .95 - 1.15
**Sweet, birch, North, cns.....lb. 2.00 - 4.00**
**South, cns.....lb. 2.25 - 2.50**
Tall, crude, dms., c.l., works. ton.40.00 - —
l.c.l., works.....ton.45.00 -50.00
tanks, works.....ton.30.00 - —
**distilled, dms., c.l., divd....lb. .06½- .07**
l.c.l., divd.....lb. .06¾- .06¼
**tanks, divd.....lb. .05 - .06¾**
**refined, dms., c.l., works...lb. .04 - —**
l.c.l., works.....lb. .04½- —
**tanks, works.....lb. .03½- —**
Tallow, acidless, bbls.....lb. .13½- —
tanks .....lb. .13 - —
**Tansy, cns.....lb. 3.55 - 4.25**
**Tar, pine, com'l, dms., c.l., divd. E. cities..gal. .28 - —**
**E. ports, c.l.....gal. .27½- —**
l.c.l. .....gal. .31 - —
**tanks, divd. E. cities..gal. .21 - —**
**rectified., USP, bbls., l.c.l., divd., E ports..gal. .55 - —**
**Tar acid (see T).**
Teaseed, crude, dms.....lb. .30 - —
refined, dms.....lb. .32 - —
Tea tree (see Oil, Ti tree).
Thyme, NF, red, cns.....lb. 1.85 - 2.20
white, cns. .....lb. 1.95 - 2.35
Tung (see Oil, Chinawood).
**Ti tree, cns.....lb. 2.50 - 2.65**
Turkey red (see castor, sulphonated).
Turpentine (see T).
Turtle, cns. .....gal. 8.50 - —
Vetiver, Java, bots.....lb.28.00 -30.00
Whale, ref., natural, dms...lb. .1070- —
winter, bleach, dms.....lb. .1110- —
Wheat germ, dms., cont., divd., 100 gal..gal.10.00 - —
dms., 50 gal.....gal.11.50 - —
dms., 25 gal.....gal.12.50 - —
dms., 10 gal.....gal.13.50 - —
dms., 5 gal.....gal.14.00 - —
cns., 1 gal.....gal.15.00 - —
White[3], mineral, dms., 50-60 vis., dms..gal. .41 - .49
65-75 vis., dms.....gal. .42 - .50
80-90 vis., dms.....gal. .43 - .52
USP, 80-90 vis., dms.....gal. .45 - .54
95-105 vis., dms.....gal. .50½- .59½
125-135 vis., dms.....gal. .56 - .63
140-150 vis., dms.....gal. .58 - .60
175-185 vis., dms.....gal. .61½- .70½
200-210 vis., dms.....gal. .64½- .73½
320-330 vis., dms.....gal. .72 - .81
335-345 vis., dms.....gal. .73 - .82
Russian, 80-90 vis., dms.gal. No prices
145-155 vis., dms.....gal. No prices
175-185 vis., dms.....gal. No prices
335-345 vis., dms.....gal. No prices
Wintergreen, natural, North. cns..lb. 4.75 - 6.00
South, cns .....lb. 3.50 - 3.85
synth (see Methyl salicylate).
Wood (see Oil, chinawood).
Wormseed, cns. .....lb. 2.85 - 3.25
Wormwood, cns. .....lb. 4.50 - 5.00
Ylang-ylang, Bourb., bots., cns. lb.20.00 -24.00
Manila, bots. .....lb.25.00 -40.00
Olivine, aggregate c.l., mines, ton. 7.00 -11.00
Lumps, same basis.....ton. 7.00 - —
Spalls, same basis.....ton. 5.00 - —
crushed, 8 mesh, bulk, c.l., works..ton. 8.00 - —
paper bags, c.l., wks..ton. 9.50 - —

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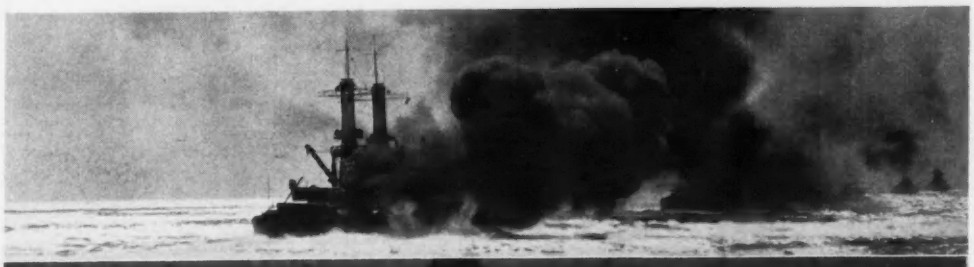
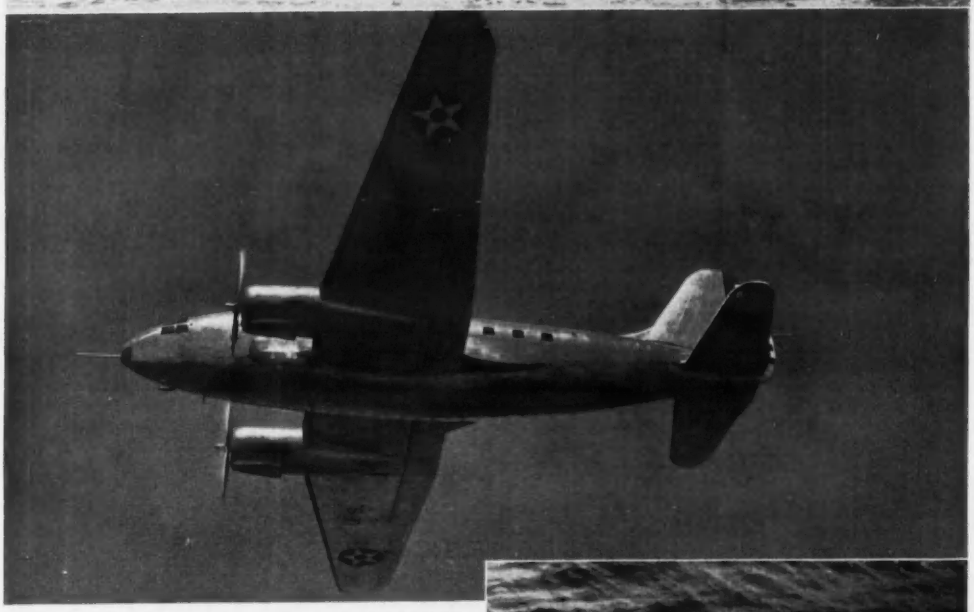
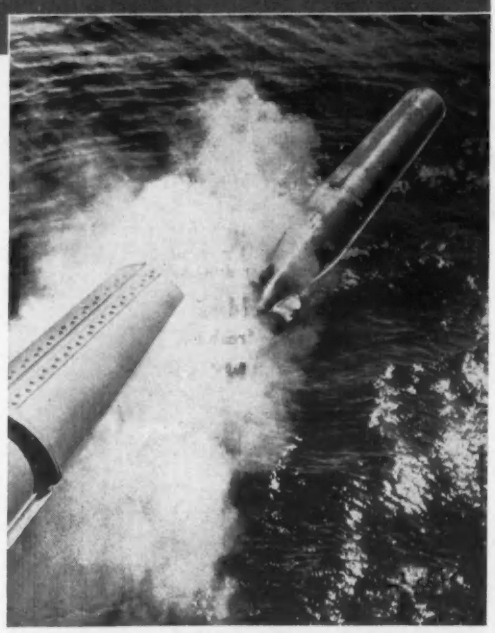
# U.S.I. ALCOHOL NEWS

December ★ A Monthly Review of Technical Developments for Chemists and Executives ★ 1941


# ALCOHOL ESSENTIAL IN DEFENSE







**Smokeless powder for firing shells, airplane construction and operation, and torpedo propulsion are among the many defense uses for ethyl alcohol. Medical applications also consume large quantities of alcohol.**

## Large Quantities Needed in Many Vital Phases of Current Program

Ethyl alcohol — always one of industry's essential raw materials — has taken on even greater importance as a result of the requirements of the defense program.

Because of the extraordinary diversity of alcohol's uses, enormous quantities are being consumed for defense purposes, with a consequent limitation of the amounts available for non-defense use.

### In Smokeless Powder

The manufacture of munitions represents one of the many important phases of alcohol's utility. Alcohol is employed as a dehydrating agent in the manufacture of the nitrocellulose needed in munitions; as a wetting agent in treating nitrocotton for safe storage and shipment; and as a solvent in making gelatin dynamites and smokeless powder. It has been estimated that every time a 16-inch shell is fired, a 55-gallon drum of alcohol is indirectly consumed.

### In Torpedo Propulsion

Firing a torpedo calls for alcohol. Here the alcohol is used directly, to furnish the motive power for propelling the torpedo.

Another important application of alcohol is its use as a de-icing fluid for propellors, carburetors and windshields in addition to its employment in indicating devices for aviation and marine service: compasses, gauges, thermometers, barometers, and other instruments.

### Medical Applications

The antiseptic properties of alcohol naturally lead to many medical uses. Not only is it used directly for such purposes as the sterilization of instruments and supplies, but it serves also as one of the most important raw materials in the production of anesthetics and of many types of drugs and pharmaceuticals. Ether and ethylene, for example — two of the most widely used anesthetics — are both produced from alcohol, while injections of alcohol itself are used as a therapeutic nerve block for the relief of pain.

### Other Typical Applications

Many of the other phases of alcohol's importance in defense result from its utility as a raw material in the manufacture of other chemicals. Ethyl acetate, an extremely important solvent in the manufacture of airplane "dopes," is an alcohol-derived chemical, which is used also in the formulation of many of the lacquers now needed in large quantities for finishing defense products.

These applications represent only a few of the outstanding phases of alcohol's vital role in carrying out the defense program, but they serve to indicate the extent to which alcohol is consumed for emergency needs.

## TECHNICAL DEVELOPMENTS

*For further information, write U.S.I.*

**A new colloid mill** adapts a triple processing action to the production of heavy colloidal dispersions, according to the maker, who recommends it for use in the manufacture of ointments, creams, soaps, and many other products. **(No. 520a)**

**A new aromatic compound** can be used for complete replacement of hydroxycitronellal in all toilet preparations in which the latter substance was previously used, according to the manufacturer. **(No. 521a)**

**Cleaning of painted walls** is facilitated by a new clear, transparent finish that can be applied over wall paints. Maker says that it can be used in plant or office, and that it prevents dirt and grime from penetrating pores of the paint. It can be removed by clear water, taking all dirt with it. **(No. 522a)**

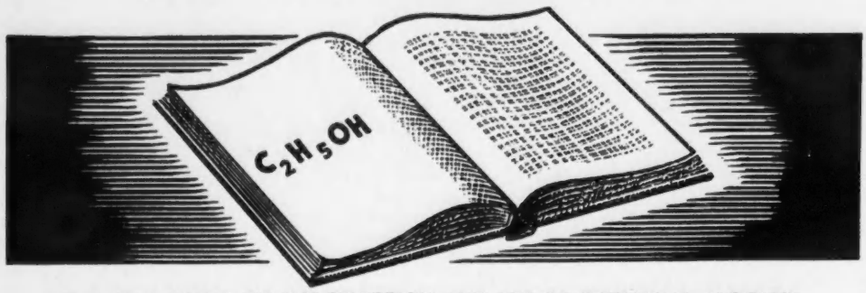
**A new preservative** for wood floors cannot scuff or chip off, because it penetrates the wood, it is reported. Maker states that the material gives preservation as deep as it penetrates. **(No. 523a)**

**An adsorbent material** which has been used in the past in the combined determination of thiamin and riboflavin, may be successfully employed also in the decolorizing of oils, fats, and waxes, and in the selective adsorption of hormones, dyes, and many other compounds, it is claimed. **(No. 524a)**


U.S.I. INDUSTRIAL CHEMICALS, INC.
60 EAST 42ND ST., NEW YORK (USI) BRANCHES IN ALL PRINCIPAL CITIES
INDUSTRIAL ALCOHOL IN ALL GRADES AND ALL FORMULAS

December ★ # U.S.I. ALCOHOL NEWS ★ 1941

## THE ALCOHOL PRIMER




NO. 8 OF A SERIES ON THE SELECTION AND USE OF INDUSTRIAL ALCOHOL

### S.D. 38, 38A, 38C, 38D, and 38E

These five formulas of Specially Denatured Alcohol may conveniently be considered together, since each is authorized for a relatively limited number of applications.

The authorized composition for S.D. 38 calls for the addition to 100 gallons of ethyl alcohol of 10 pounds of any of the following:

Methyl salicylate, U.S.P.
Oil of wintergreen, U.S.P.
Oil of cassia, U.S.P.
Oil of cloves, U.S.P.
Oil of peppermint, U.S.P.

and also of 5 gallons of a water solution of 60 ounces of zinc chloride, U.S.P. The oil is first dissolved in the alcohol, and then the zinc chloride solution added.

This formula is authorized for use as a solvent in manufacturing:

Touth paste and tooth powder
Mouth washes
External pharmaceuticals not U.S.P. or N.F.

S.D. 38A is prepared by adding to 100 gallons of ethyl alcohol:

5 ounces menthol crystals, U.S.P.
9 ounces emetine hydrochloride, U.S.P.
16 pounds benzoic acid, U.S.P.

This formula has only a single authorized application, as a solvent in the manufacture of mouth washes.

### Uses of S.D. 38C

S.D. Alcohol 38C is prepared by adding to 100 gallons of ethyl alcohol 160 ounces of menthol, U.S.P., and 1.25 gallons of formaldehyde, U.S.P., containing 37% formaldehyde.

S.D. 38C is authorized for use as a solvent in manufacturing: face and hand lotions; tooth paste and tooth powder; and mouth washes.

S.D. Alcohol 38D makes use of the same denaturants as 38C, but in different proportions. According to the authorized composition for this formula, to each 100 gallons of ethyl alcohol are added 40 ounces of menthol, U.S.P., and 2½ gallons of formaldehyde, U.S.P., containing 37% formaldehyde. This formula is authorized only for use in manufacturing mouth washes.

### S.D. Alcohol 38E

This formula also is authorized for use only as a solvent in the manufacture of mouth washes. It is prepared by adding to 100 gallons of ethyl alcohol either: (1) 5 gallons of fluid extract ipecac, U.S.P.; or (2) 40 pounds of ipecac, U.S.P.

All of these formulas of S.D. Alcohol are shipped in the following containers:

50-gallon wood barrels
5-gallon glass carboys
1-gallon glass bottles

It may be noted that these formulas offer considerable latitude to the manufacturer of mouth washes, an application for which they are all authorized. Other formulas authorized for use in this application include S.D. 38B, which was discussed in detail in the June issue of U.S.I. Alcohol News, and 37 and 37A, which will be discussed next month.

(The term *authorized uses* refers to applications for which formulas may normally be used under regulations of the Alcohol Tax Unit. Mandatory priorities now in effect may limit the quantities of alcohol available for certain of its authorized uses.)

## HERE AND THERE

With the announcement that bentonite is to be admitted to U.S. Pharmacopoeia XII, increased interest is expected to be centered on this clay-like material. Another factor of interest is bentonite's availability from domestic sources.

Outstanding property of bentonite is its affinity for water, and this characteristic has led to many applications in pharmaceuticals and cosmetics. Medically, bentonite is regarded as safe for internal application. More commonly, however, it is employed in the manufacture of salves, ointments, and pastes, which are free from undesirable greasiness. Its beneficial effects in these preparations is considered to be largely the result of its colloidal properties. Bentonite is being successfully used also in soaps, where it apparently increases lathering properties.

One of the chief problems involved in the use of the bentonite is the preparation of the suspensions in which it is commonly utilized. It has been found that the bentonite can be dispersed more readily by first mixing it with alcohol and then adding water to form a gel, than by directly mixing it with water alone.

### Essential Oil Sources

Government experts are continuing their search for new sources of essential oils, to replace the European supplies now largely cut off. Recent reports indicate that the Philippines are among the potential sources. Two plants grown there yield oils which resemble bergamot and jasmine — two of the most extensively used of all essential oils for the manufacture of perfumes and other cosmetic products.

Another suggestion that is receiving attention is that efforts be made to grow more roses in the United States as a source of essential oils.

### Glycerine-Pitch Treatment

Recovery of commercially useful products from glycerine-pitch — the residue from glycerine distillation — is the subject of a recent foreign patent. The glycerine-pitch is diluted with water and neutralized, after which it is adsorbed on sawdust of silica and dried. It is then extracted with an organic solvent, such as acetone or ethyl acetate, and the solvent is vaporized. The process is said to permit recovery of di- and polyglycerols.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A SUBSIDIARY OF U. S. INDUSTRIAL ALCOHOL CO.

**ALCOHOLS**
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined
Methanol

**Ethanol (Ethyl Alcohol)**
Specially Denatured—All regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96%, Absolute
U.S.I. Denatured Alcohol Anti-freeze
*Super Pyro Anti-freeze
*Solox Proprietary Solvent
*Solox D-I De-icing Fluid

***ANSOLS**
Ansol M
Ansol PR

**ACETIC ESTERS**
Amyl Acetate
Butyl Acetate
Ethyl Acetate

**OXALIC ESTERS**
Butyl Oxalate
Ethyl Oxalate

**PHTHALIC ESTERS**
Amyl Phthalate
Butyl Phthalate
Ethyl Phthalate
*Registered Trade Mark

**PROPIONIC ESTERS**
Amyl Propionate
Butyl Propionate

**OTHER ESTERS**
*Diatol
Ethyl Carbonate
Ethyl Chloroformate
Ethyl Formate
Ethyl Lactate

**INTERMEDIATES**
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Sodium Oxalacetate

**ETHERS**
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

**OTHER PRODUCTS**
Acetone
*BK-5
Collodions
*Curbay B-G
*Curbay Binders
*Curbay X (Powder)
Derex
Ethylene
Ethylene Glycol
*Indalone
Methyl Acetone
Nitrocellulose Solutions
Potash, Agricultural
Urethan
*Vacatone

**Olivine, ground, 325 mesh, c.l., mines..ton.20.00 - —**
200 mesh, c.l., mines....ton.17.00 - —
100 mesh, c.l., mines....ton.15.00 - —
20 mesh to dust.....ton.12.00 - —
**Opium gum, USP, 50-lb. lots, cns..lb.13.00 - —**
25-lb. lots, cns.....lb.13.25 - —
5-lb. lots, cns.....lb.13.50 - —
1-lb. lots, cns.....lb.13.65 - —
Prices on powd. and gran. USP opium are $1.50 per pound higher.
**Orange, Lake, Persian, bbls...lb. .30 - .45**
**Mineral, Amer., bbls., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. .11½- —**
**Mineral, Amer., bbls., 5 tons, dlvd., Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore., Wash..lb. .11½- —**
**Colo., Mont., N. M., Wyo..lb. .11¾- —**
**5 bbls., dlvd., other points, lb. .11¼- —**
**smaller lots, dlvd., Ala., etc..lb. .12 - —**
**Ariz., etc.....lb. .12½- —**
**Colo., Mont., N. M., Wyo..lb. .12¾- —**
**Other points.....lb. .11¾- —**
**French, Tours, casks, ex dock, lb. No prices**
**kgs., ex dock.....lb. No prices**
**Molybdate, bbls.....lb. .31 - —**
**Toner, bbls.....lb. .80 - 1.05**
**Orangeflower petals, cs.....lb. .45 - .50**
**Orange peel, bitter, bbls...lb. .32 - .33**
**sweet, bls.....lb. .13 - .17**
**Haitian, bgs.....lb. .09 - .10**
**Orris root, Florentine, bgs....lb. 2.75 - 3.50**
**fingers, cs.....lb. No stocks**
**powd., bbls., bxs.....lb. 2.75 - 3.50**
**Verona, bls.....lb. 2.50 - 3.25**
**powd., bgs., cns.....lb. 2.75 - 3.50**
**Orthoamylphenol, l.c.l., dms., works..lb. .25 - —**
**Orthoanisidin, bbls.....lb. .70 - —**
**Orthochloranilin, dms.....lb. .60 - .70**
**Orthochlorophenol, dms.....lb. .32 - —**
**Orthocresol, dms., c.l., works..lb. .17 - .17½**
l.c.l., same basis.....lb. .17½- .18
**Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb. .06 - .07½**
l.c.l., same basis.....lb. .07 - .08¼
100-lb. tins, same basis.lb. .08 - .09
50-lb. tins, same basis..lb. .09 - .10
tanks, same basis.....lb. .05½- .06½
Ort odichlorobenzene prices west of Rockies, 1c. per lb. higher.
**Orthonitranilin, dms.....lb. .45 - —**
**Orthonitrochlorobenzene, dms..lb. .15 - .16**
**Orthonitroparachlorophenol,cns.lb. .75 - —**
**Orthonitrotoluene, dms.....lb. .09 - —**
**Orthophenetidin, dms.....lb. .80 - —**
**Orthotoluidin, dms.....lb. .19 - —**
**Osage orange, crystals, bgs....lb. .23 - —**
**extract, bbls., No. 1.....lb. .11 - —**
**No. 2..lb. .10 - —**
**Oxyquinolin sulphate, cns., 100-lbs., works..lb. 3.50 - —**
**bots., cns., 1-50 lbs.....lb. 3.75 - 4.15**

## P

**Papain, powd., cs.....lb. 2.75 - 3.60**
**Paprika, Algerian, bgs.....lb. .35 - .40**
**Bulgarian, fair, bgs.....lb. .28 - .29**
**Portuguese, extra fancy, bgs.lb. .54 - .55**
**good, bgs.....lb. .32 - .33**
**Spanish, extra fancy, cs.....lb. .55 - .56**
**medium, cs.....lb. .50 - .51**
**Parachlorophenol, dms.....lb. .32 - —**
**Paracymene, refd., dms.....gal. .75 - 1.25**
**Paradichlorobenzene, dms., c.l.lb. .11 - .13**
l.c.l. .....lb. .12½- .15
**Paraffin,[1] crude scale, 122-124 A.M.P., bbls., 10,000 lbs., f.o.b. seller's shipping point, freight equalized with Whiting, Ind.; N.Y.C.; Phila., Pa.; New Orleans; Baton Rouge, La., and Texas Gulf ports..lb. .04¼- —**
**124-126 A.M.P., bbls., same basis..lb. .04¼- —**
**129-131 A.M.P., bbls., same basis..lb. .04¾- —**
**132 or higher A.M.P., bbls., same basis..lb. .05¼- —**
**fully refined, 120-122 A.M.P., bbls., slabs, loose, same basis..lb. .05 - —**
**123-125 A.M.P., slabs, loose, same basis..lb. .0520- —**
**125-127 A.M.P., slabs, loose, same basis..lb. .0520- —**
**128-130 A.M.P., slabs, loose, same basis..lb. .0560- —**
**130-132 A.M.P., slabs, loose, same basis..lb. .0585- —**
**131-133 A.M.P., slabs, loose, same basis..lb. .0585- —**
**133-135 A.M.P., slabs, loose, same basis..lb. .0615- —**
**135-137 A.M.P., slabs, loose, same basis..lb. .0640- —**
**138-140 A.M.P., slabs, loose, same basis..lb. .0715- —**
**143-145 A.M.P., slabs, loose, same basis..lb. .0810- —**
**149-151, A.M.P., slabs, loose, same basis..lb. .10½- —**
**semi-refined, 122-124 A.M.P., bbls., same basis..lb. .04¼- —**
**124-126 A.M.P., bbls., same basis..lb. .04¼- —**
**128 or higher A.M.P., bbls., same basis..lb. .05¼- —**
Paraffin wax, crude scale and semi-refined prices are $0.0005 per lb. less than the above for tankcar delivery; for delivery of smaller than 10,000 pounds prices are $0.015 per lb. higher than the above. For paraffin packed in bags prices are $0.004 per lb. higher than the above.
**Paraformaldehyde,[2,5,6] dms., 1,000 lbs. or more, shipments, f.o.b. Perth Amboy, Philadelphia, or N.Y.C..lb. .23 - —**
**100 to 900 lbs., shipments, same basis..lb. .24 - —**
**Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., works..lb. .12 - —**
**5 and 10-gal. dms., works..lb. .15 - —**
**USP, cns., cbys.....lb. .37 - .45**
**Paranitrophenol, kgs.....lb. .35 - —**
**Paranisidine, dms.....lb. .75 - —**
**Paranitroanilin, kgs., works...lb. .48 - —**
**Paranitrochlorobenzene, kgs...lb. .15 - —**
**Paranitrotoluene, kgs.....lb. .30 - —**
**Paraphenylenediamine, bbls....lb. 1.25 - 1.30**
**Paratoluenesulphonamide, bbls.lb. .70 - —**
**Paratoluidin, bbls.....lb. .48 - —**
**Pareira brava root, bls.....lb. .20 - .21**
**Paris green, dealer, dms., kegs, c.l., f.o.b. wks., frt. alld..lb. .24 - .26**
l.c.l., same basis.....lb. .25 - .27
**Passion flower, herb, bls.....lb. .06 - .07**
**Patchouli leaves, bls.....lb. .28 - .30**
**Pectin, 200 lb. bbls.....lb. .75 - —**
**Pellitory root, bls.....lb. .30 - .32**
**Pennyroyal leaves, bls.....lb. .15 - .16**
**Pentachlorophenol, dms., works, lb. .20 - .25**
**Pentaerythritol, C.P., bbls., dlvd., lb. .75 - —**
**less than barrel lot.....lb. 1.00 - —**
**tech., bbls., dlvd.....lb. .33½- .35½**
**less than barrel lots.....lb. .40 - —**
**Tetra acetate, bbls., dlvd....lb. 1.00 - —**
**less than barrel lot.....lb. 1.50 - —**
**Pentanes,[2] 28°-38° C., industrial grade, dms., c.l., G.S, gal. .11 - —**
**l.c.l., G.S.....gal. .19 - —**
**tanks, G.S.....gal. .08½- —**
**laboratory grade, dms., c.l., G.S..gal. .16 - —**
**l.c.l., G.S.....gal. .29 - —**
**10 gal., G.S.....gal. .55 - —**
**Pepper, black,[1] Alleppey, bgs..lb. .08½- .09**
**Lampong, bgs.....lb. .06¾- .07**
**Tellicherry, bgs.....lb. .08½- .09**
**white[1] Java, bgs.....lb. .11 - —**
**small berry, bgs.....lb. .10 - —**
**red, chillies, Japan, Hontaka..lb. .40 - .41**
**Mombassa, bgs.....lb. .27 - .28**
**Sierre Leone, bgs.....lb. .23½- .24**
**Peppermint leaves, dom., bls..lb. .65 - .70**
**import, bls.....lb. 1.10 - 1.15**
**Perchlorethylene,[3] dms., c.l., works, frt. alld., zone 1, lb. .08 - —**
l.c.l., same basis.....lb. .08½- —
**Zone 2, dms., c.l., works, frt. alld..lb. .08¼- —**
l.c.l., same basis.....lb. .09 - —
**Perchlorethylene[3], Zone 3, dms., c.l., works, frt. alld..lb. .09 - —**
l.c.l., same basis.....lb. .09½- —
**Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —**
l.c.l., same basis.....lb. .09½- —

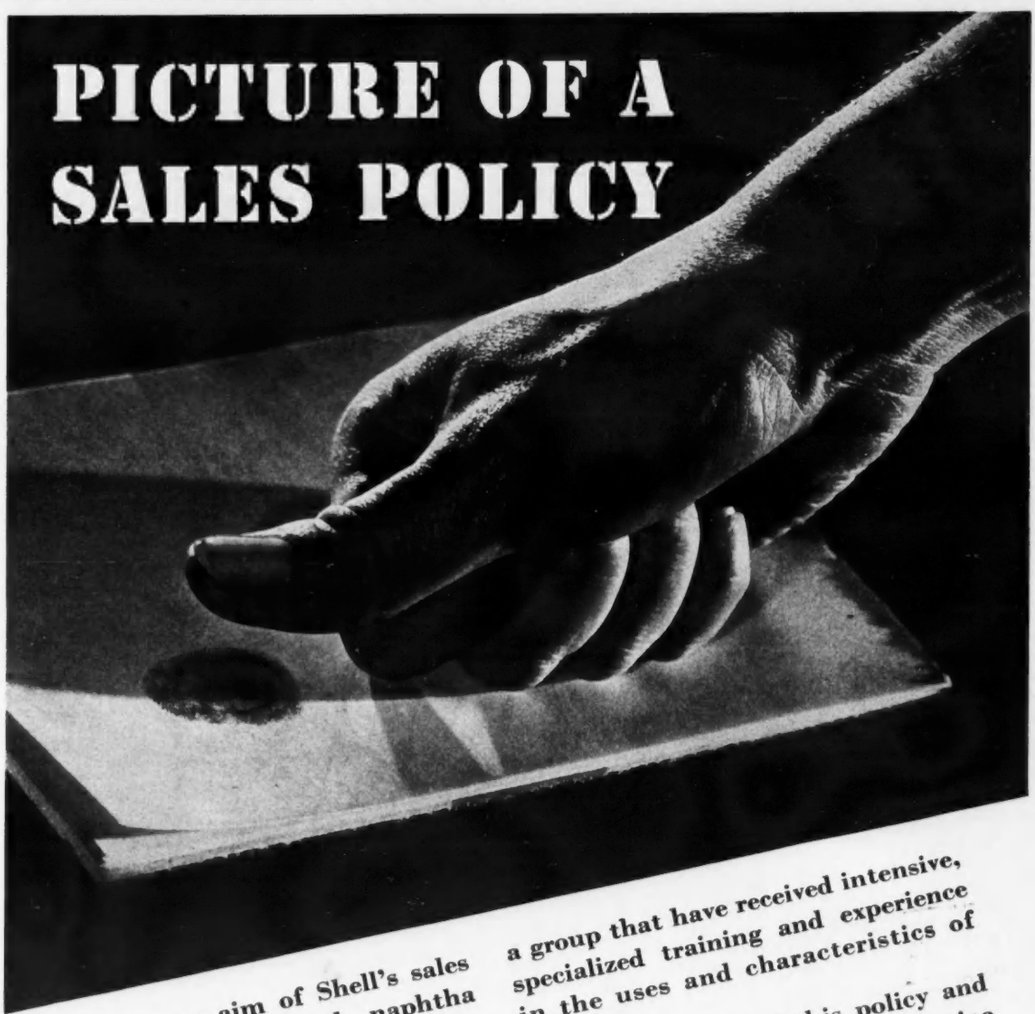
All prices on perchlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following states:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., N. H., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla., and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.

**Peru, balsam, dms.....lb. 1.25 - 1.30**
**Petrolatum,[2] amber, dms.....lb. .03½- —**
l.c.l. .....lb. .04½- —
**amber, extra, dms.....lb. .03¾- —**
l.c.l. .....lb. .04¾- —
white, cream, dms., c.l. .....lb. .05 - —
l.c.l. .....lb. .06½- —
lily, dms., c.l.....lb. .05¾- —
l.c.l. .....lb. .07¼- —
snow, dms., c.l.....lb. .06½- —
l.c.l. .....lb. .08 - —
**Petroleum,[2] crude, bulk, at wells—**
California .....bbl. .68 - 1.53

### Olivine—Petroleum Ether

Petroleum, crude, bulk, at wells:—
Central West—
Illinois .....bbl. 1.22 - 1.37
Michigan .....bbl. 1.24 - 1.44
Indiana .....bbl. 1.22 - —
East Texas.....bbl. 1.25 - —
Gulf Coast.....bbl. 1.06 - 1.45
Louisiana, Arkansas.....bbl. .94 - 1.36
Midcontinent (Oklahoma, Kansas, North Texas).....bbl. .75 - 1.25
**Pennsylvania, Ohio, West Virginia—**
Bradford, Allegany.....bbl. 2.75 - —
Corning .....bbl. 1.31 - —
N. Y. Transit lines.....bbl. 2.75 - —
Eureka lines.....bbl. 2.34 - —
S. W. Penn lines.....bbl. 2.40 - —
Lower district in National Transit lines..bbl. 2.63 - 2.68
Rocky Mountains.....bbl. .96 - 1.20
South Central and Southwestern Texas..bbl. 1.03 - 1.50
Texas Panhandle, W. Texas and N. Mexico..bbl. .70 - 1.15
Ether laboratory grade, 30-60°C., c.l..gal. .18 - —
l.c.l. .....gal. .29 - —
10 gals.....gal. .55 - —
35-60°C., l.c.l.....gal. .29 - —
10 gals.....gal. .55 - —
40-75°C., c.l.....gal. .16 - —
l.c.l. .....gal. .29 - —
10 gals.....gal. .55 - —

Petroleum ether prices are spot quotations, f.o.b. Group 3, for material packed in drums.


THE primary aim of Shell's sales policy is to give each naphtha user a service that is as individually his own as his thumbprints.

That's why Shell established a separate and distinct organization to handle the making and servicing of naphthas.

Key man in this organization is the Shell Naphtha Technician. An experienced chemical engineer, he is one of a group that have received intensive, specialized training and experience in the uses and characteristics of naphthas.

If you approve of this policy and would enjoy personalized service yourself, invite the Shell Naphtha Technician to call. Just write the nearest Shell Office. It may save you considerable money and it costs you nothing.

SHELL

SHELL NAPHTHAS

## Pet. Lacquer Dil.—Red Saunders

Petroleum, lacquer diluent, at refinery:—
California, 100 l.b.h., 200 e.p., tanks, dlvd., Los Angeles..gal. .11 - —
San Francisco..gal. .11½- —
Willbridge, Ore., Fort Wolles, Wash..gal. .12 - —
East Coast, N. Y., tanks, gal. .11 - —
N. J., tanks.....gal. .11 - —
Group 3, toluol type, tanks, gal. .07⅝- .08⅛
Benzol type, tanks..gal. .07⅛- .08⅝
Mineral spirits at refinery, California (f.o.b. San Francisco), 166-352 b.r., tanks..gal. .10½- —
196-290 b.r., tanks...gal. .10½- —
246-397 b.r., tanks...gal. .10½- —
312-408 b.r., tanks...gal. .09 - —
362-458 b.r., tanks...gal. .09 - —
East Coast, N. Y., tanks, gal. .09½- —
N. J., tanks.....gal. .09½- —
Group 3, tanks.....gal. .06½- —
Gulf Coast, tanks.....gal. .06½- —
tankwagon:—
Albany .....gal. .13½- —
Baltimore (100 gals.)..gal. .14 - —
25-99 gals.....gal. .10 - —
Boston .....gal. .11½- —
Bound Brook, North Amboy, N. J..gal. .10½- —
Bridgeport, Conn.....gal. .11½- —
Buffalo .....gal. .15½- —
Camden, N. J.....gal. .10½- —
Chicago .....gal. .1670- —
Decatur .....gal. .1810- —
Des Moines.....gal. .1790- —
Evansville, Ind.....gal. .1420- .1520
Milwaukee .....gal. .1930- —
Minneapolis-St. Paul..gal. .10½- —
Newark .....gal. .10½- —
New York (200 gal.)..gal. .10½- —
Omaha .....gal. .12½- —
Pittsburgh .....gal. .11½- .12½
Providence .....gal. .12 - —
Rochester .....gal. .12½- —
St. Louis.....gal. .1470- —
Syracuse .....gal. .10½- —
Trenton .....gal. .10½- —
Wilmington, Del.....gal. .12½- —
Naphtha, cleaners, at refinery:—
California f.o.b. San Francisco), tanks..gal. .12 - —
East Coast, N. Y., tanks, gal. .10½- —
N. J., tanks.....gal. .10½- —
Group 3, tanks.....gal. .07⅛- —
Gulf Coast (f.o.b. New Orleans), tanks..gal. .06⅝- —
tankwagon, Boston, ex tax. gal. .12½- —
Bridgeport .....gal. .13½- —
Chicago, inc. 4c. tax...gal. .18 - —
Decatur, inc. 4c. tax...gal. .1910- —
Des Moines, inc. 4c. tax. gal. .1890- —
Evansville, inc. ex tax.gal. .15 - .16
Milwaukee, inc. 5c. tax.gal. .2030- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20½- —
Newark, ex tax.....gal. .10½- —
New York, ex tax....gal. .11½- —
Omaha, ex tax.....gal. .1490- .1590
Oklahoma City, ex tax.gal. .16½- —
Philadelphia, ex tax...gal. .12 - —
St. Louis, inc. 1c. tax.gal. .15½- —
Syracuse, 150 gals.....gal. .14½- —
high-solvency, aromatic, No. 1, over 70% arom., tanks, f.o.b. Bayway..gal. .21½- —
No. 2, over 90% arom., same basis..gal. .21½- —
3, same basis.....gal. .22½- —
8, tanks, f.o.b. Wilmington, Cal..gal. .14 - —
30, same basis.....gal. .13½- —
40, same basis.....gal. .13½- —
V.M.& P., at refinery:—
California, 46.5, 254 l.b.p., 380 e.p., tanks, f.o.b. El Segundo..gal. .11 - —
Richmond .....gal. .11½- —
Willbridge, Ore., Pt. Wells, Wash..gal. .12 - —
54-57, 190 l.b.p., 310 e.p., tanks, dlvd., Los Angeles..gal. .10 - —
San Francisco....gal. .10½- —
Portland, Seattle..gal. .11 - —
East Coast N. Y., tanks, gal. .10½- —
N. J., tanks.....gal. .10½- —
Group 3, tanks.....gal. .07⅛- —
Gulf Coast (dlvd. New Orleans), tanks..gal. .06½- —
tankwagon, Boston, ex tax, gal. .12½- —
Chicago, inc. 4c. tax..gal. .17 - —
Des Moines, inc. 4c. tax, gal. .1890- —
Decatur, inc. 4c. tax..gal. .1910- —
Evansville, Inc., ex tax, gal. .1520- .1620
Milwaukee, inc. 5c. tax.gal. .2030- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20 - —
Newark, ex tax.....gal. .11½- —
New York, ex tax....gal. .10½- —
Omaha, ex tax.....gal. .1490- .1590
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax..gal. .1570- —
Solvent, rubber, at refinery, California (f.o.b. San Francisco)..gal. .24 - —
East Coast, N. Y., tanks, gal. .10½- —
N. J., tanks.....gal. .10½- —
Group 3, tanks.....gal. .07⅛- —
Stoddard (CS 8-33), at refinery:—
California (f.o.b. San Francisco), tanks..gal. .11 - —
East Coast, N. Y., tanks, gal. .09½- —
N. J., tanks.....gal. .09½- —
Group 3, tanks.....gal. .06⅝- —
Tankwagon, Boston, ex tax, gal. .11½- —
Chicago, inc. 4c. tax..gal. .1640- —
Decatur, inc. 4c. tax..gal. .1800- —
Des Moines, inc. 4c. tax, gal. .1840- —
Evansville, Ind., ex tax, gal. .14 - .15
Milwaukee, inc. 5c. tax.. gal. .1980- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .1820- —
Newark, ex tax.....gal. .09½- —
New Orleans, ex tax..gal. .11 - —
New York, ex tax.....gal. .10½- —
Omaha .....gal. .1360- .1450
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax..gal. .1340- —
Tulsa, ex tax.....gal. .10½- .11½
Phenobarbital, 5lb. bots.....lb. 4.35 - —
bots. or cns., 100 lbs., spot or contract..lb. 4.00 - —
25-lb. cns.....lb. 4.25 - —
Phenol,[7] USP, cms., c.l., works, frt. equald..lb. .12½- —
l.c.l., same basis.....lb. .13¼- —
under 1,000 lbs.....lb. .14¼- —
tanks, works.....lb. .11½- —
Phenolphthalein, USP, bbls.,cms., 2,000-lb. lots..lb. .85 - —
bbls., dms., kegs, 100-250 lbs. lb. .87 - .89
yellow, fib. dms., 2,000-lb. lots. lb. .80 - —
100-lb. fib. dms.....lb. .82 - —
25-lb. dms.....lb. .87 - —
50-lb. kgs.....lb. .84 - —
Phenyl chloride, dms.....lb. .17 - —
Phenylacetaldehyde, bots.....lb. 5.00 - 6.00
dimethylacetate, cns.....lb. 14.50 -15.00
Phenyl ethyl acetate, cns.....lb. 2.90 - 3.50
Phenylethylphenyl acetate, bots. lb. 8.00 -15.00
Phenylhydrazine, base, CP, bots. lb. 4.55 - —
hydrochloride, CP, bots., works. lb. 7.10 - —
commercial, kgs., works.....lb. 1.75 - —
Phloroglucinol, CP, tins, wks..lb. 20.00 -22.00
tech., tins, works.....lb. 15.00 -16.50
Phosphate rock, Fla., high-grade, hard, 77%-76%.....long ton. 5.00 - —
land pebble, 68%-66%.long ton. 2.00 - —
70%-68%.....long ton. 2.40 - —
72%-70%.....long ton. 3.00 - —
75%-74%.....long ton. 4.00 - —
Tenn., 72%-70%.....long ton. 5.00 - —
75%-74%.....long ton. 6.00 - —
Phosphate rock prices are for shipment in bulk, f.o.b. mines.
Phosphorus, red, cs.....lb. .40 - .44
yellow, dms.....lb. .18 - .20
cases.....lb. .23 - .25
Oxychloride,[8] cyls.....lb. .15 - .18
Pentoxide, dms., c.l., works..lb. .11 - .12
l.c.l., dms., works.....lb. .13 - .14
Sesquisulphide, cs.....lb. .38 - .42
Trichloride, cyls.....lb. .15 - .16
Phthalamide, bbls., wks., ton..lb. .35 - —
single, bbls., works...lb. .40 - —
kgs., works.....lb. .45 - .50
Phthalic anhydride,[6] bbls., c.l., works, frt. alld. E. of Miss. R...lb. .14½- —
l.c.l., same basis.....lb. .15½- —
Pichi leaves, bgs.....lb. .08 - .09
Pilocarpine hydrochloride, bots., vls..oz. 4.00 - 5.25
Nitrate, bots., vls.....oz. 3.85 - 5.50
Pimento, Jamaica, bgs.....lb. .23 - .24
Mexican (see Allspice, Mexican).
Pinkroot, bls.....lb. .45 - .70
Pitch, burgundy (see E).
Coaltar, 160° m.p., bbls., c.l., works..ton. 19.00 - —
l.c.l. .....ton. 22.00 - —
hardwood, 1-time dms., c.l., dlvd. Akron..ton. 23.75 -24.00
Linseed, dms.....lb. .05 - .05½
Petroleum (see Asphaltum, Mexican, Texas).
Pitch, pine, bbls.....bbl. 6.75 - 7.00
Plaster of paris (see Gypsum).
Pleurisy root, Southern, bls...lb. .12 - .13
Podophyllin, dms., 100-lb. lots, dlvd. E. of Miss..lb. 7.65 - —
Poke root, bls.....lb. .09 - .10
Polyamyl naphthalene, l.c.l., dms., works..lb. .25 - —
Pomegranate bark, bgs.....lb. .49 - .50
Root bark, bgs.....lb. .60 - .65
Poppy flowers, red, bls.....lb. .70 - .75
Seed, Dutch, bgs.....lb. .59 - .60
Indian, white, bgs.....lb. .10¼- .10⅝
Turkish, bgs.....lb. .40 - .41
Potash abietate.....lb. .08 - —
Acetate, USP, bbls., 250 lbs..lb. .28 - —
cns., 25 lbs.....lb. .31 - .44
Arsenite, USP, solut., 100-lb. lots, cbys., demijs..lb. .13 - .15
Bicarbonate, USP, cryst., bbls., 300 lbs.....lb. .14 - —
gran., bbls., 250 lbs.....lb. .14 - —
Bichromate,[2,5] spots, c.l., works..lb. .09⅝- —
6 casks or 10 bbls., or over, works..lb. .09⅝- —
5 casks or 9 bbls., or less, works..lb. .10 - —
Bromide, USP, gran., bbls., 500 lbs..lb. .27 - .31
kgs., 100 lbs.....lb. .28 - .32
Carbonate, calc., dms., c.l., works..lb. .06½- —
l.c.l., same basis.....lb. .06⅝- —
hydrated, 83-85%, bbls., c.l., works..lb. .05½- —
l.c.l., same basis.....lb. .05⅝- —
liquid, dms., c.l., works, frt. alld..lb. .03 - —
l.c.l., dms., same basis..lb. .03½- —
tanks, same basis.....lb. .02⅝- —
USP, gran., bbls., 325 lbs. powd., bbls., 325 lbs.....lb. .14 - .16
kgs., 100 lbs.....lb. .19 - —
Caustic, flake, 88-92%, dom., l.c.l., works.....lb. .21 - —
c.l., works..lb. .07¼- —
liquid, 45% basis, dms.....lb. .07 - —
tanks.....lb. .03¼- .03½
solid, 82-92%, dom., c.l., works..lb. .02⅝- —
l.c.l. .....lb. .06½- —
Chlorate,[2] cryst., kgs.....lb. .06½- .06⅝
powd., kgs.....lb. .11 Nom.
Chloride, tech., 98%, cryst., bgs., kgs..lb. .09⅝- .10
Chromate,[2,4] kgs.....lb. .08 Nom.
Citrate, USP, gran., 250-lb. bbls., lbs..lb. .24 - .27
100-lb. dms.....lb. .33½- —
50-lb. dms.....lb. .34½- —
25-lb. dms.....lb. .35½- —
powd., 3c. per lb higher. .37½- —
Cyanide, dom., dms., works..lb. .55 - —
Cyanide, gold, 41% gold, ozs. works..oz 14.20 -14.96
Glycerophosphate, 75%, sol., dms., 1,000-lb. lots..lb. 1.50 - —
100-lb. lots.....lb. 1.60 - —
50-lb. lots, cbys. or cns..lb. 1.65 - —
25-lb. lots, cns.....lb. 1.75 - —
Guaiacolsulphonate, fib. dms., 100-lb. lots..lb. 1.75 - —
25 lbs. to 50 lbs.....lb. 1.80 - 1.85
Hydroxide, USP, sticks, cns., 100 lbs. to 1,000 lbs..lb. .32 - .34
Hypophosphite, cns., 100 lbs..lb. .72 - —
25 to 50 lbs.....lb. .75 - —
Iodate, bots., 5 lbs.....lb. 3.46 - —
25 lbs.....lb. 3.35 - —
Iodide, bots or cns.....lb. 1.44 - 1.48
dms.....lb. 1.35 - 1.38
Kainit, 20%, $K_2O$, bulk, ex vessel, Atlantic or Gulf ports..ton. No prices
Manure salt, dom., run-of-mine grade, bulk, ex vessel, ports..unit-ton. .60 - —
f.o.b. Carlsbad, N.M., unit-ton. .20 - .21
import, 30%, $K_2O$, bulk, ex vessel, Atlantic or Gulf ports..ton. No prices
Metabisulphite, kgs.....lb. .18 - .20
Muriate, dom., min. 50% $K_2O$, bulk, ex vessel, ports.. unit-ton. .56 - .58
Potash, muriate, dom., min. 60% $K_2O$, same basis..unit-ton. .53½- —
import, min. 50% or 60% $K_2O$, bulk, ex vessel, Atlantic or Gulf ports..unit-ton. No prices
Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of $K_2O$ less than the ex vessel price named above.
Oxalate, pure, cryst., kgs....lb. .40 - .42
tech., bbls., dms.....lb. .28 - .30
Nitrate, crude, bgs., c.i.f. ports. ton. No prices
Perchlorate,[2] kgs., wks.....lb. .09½- .11
Permanganate,[2] tech., dms., works..lb. .19⅝- .20¼
USP, dms., wks.....lb. .20¼- .21
Prussiate, red, bbls.....lb. No prices
Yellow, spot, bbls.....lb. .17 - .18
Ricinoleate, tech., bbls.....lb. .13 - —
Silicate alkaline, lumps, bgs., lb. .07 - —
Sulphate, NF, powd., 550 lbs., bbls..lb. .15 Nom.
100-lb. kgs.....lb. .17 - —
Prices on granular 4c. higher.
tech., dom., bulk basis, 90%, $K_2SO_4$, ex vessel, ports..ton. 36.25 - —
imp., min., 90%, bgs., ex ves. sel, Atl. or Gulf ports..ton. No prices
Xanthate, dms., c.l.....lb. .12 - —
Sulphocyanide, C.P., dms....lb. .75 - .95
N.F., dms.....lb. .55 - .65
Potash-magnesia, sulphate, dom., bulk, 40%, $K_2SO_4$, ex vessel, ports..ton. 26.00 - —
Potash-soda ferricyanide, dms., works..lb. .40 - .43
Potash titanium oxalate, 250-lb. bbls..lb. .45 - —
100-lb. dms.....lb. .50 - —
Prickly ash bark, bls.....lb. .12 - .13
Berries, bgs.....lb. .25 - .26
Prince's pine herb, bls.....lb. .28 - .40
Procaine, hydrochloride, 25-lb. cns., lb. 8.00 - —
5-lb. cans.....lb. 8.25 - 8.50
1-lb. bots.....lb. 8.75 - —
Propane, industrial grade, tanks, Group 3..gal. .03 - —
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. 1.10 Nom.
Pumice, dom., grd., fine, 4F, 3F, 2F, F, O, bgs., f.o.b. Chicago, 2,000 lbs. and up. lb. .04 - —
600-1,999 lbs.....lb. .04¼- —
100-599 lbs.....lb. .04⅝- —
f.o.b. New York, 2,000 lbs. and up..lb. .03⅝- —
500-1,999 lbs.....lb. .03⅝- —
100- 499 lbs.....lb. .04 - —
coarse, O½, ½, 1, 1½, 2, 3, bgs., f.o.b. Chicago, 2,000 lbs. and up..lb. .04¼- —
600-1,999 lbs.....lb. .04½- —
100-599 lbs.....lb. .05 - —
f.o.b. New York, 2,000 lbs. and up..lb. .03⅝- —
500-1,999 lbs.....lb. .03⅝- —
100- 499 lbs.....lb. .04¼- —
imp., Italian.....lb. No prices
Pumice stone packed in barrels is ½c. per lb. higher than the above prices.
Pumpkin seed, bgs.....lb. .10 - .11
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.15 - —
linseed oil, raw, dms....100 lbs. 5.00 - —
refined, dms.....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum concentrate, liq. (20 to 1), basis 2 grams pyrethrins per 100 cc., dms., dlvd..gal. 4.30 - —
(30 to 1), 3 grams pyrethrins per 100 cc., dms., dlvd..gal. 6.35 - —
Pyrethrum flowers, coarse, grnd. (g.f.p.) 0.9% pyrethrins, frt. alld., bbls..lb. .21 - .22
fine powd., 0.9% pyrethrins, frt. alld., bbls..lb. .22 - .23
Pyridin, denaturing, dms.....gal. 1.71 - —
refd., 2°, dms.....lb. .46 - —
Pyrites, Spanish, bulk, c.i.f. Atl. ports..unit-ton. No prices
Pyrocatechin, CP, cryst., works, fib. dms., tins..lb. 2.15 - 2.40
resublimed, fib. dms., tins..lb. 4.60 - —
Pyrophylite, standard, 200 mesh, c.l., mines..ton. 10.00 - —
325 mesh, same basis.....ton. 13.00 - —
No. 3, 200 mesh, c.l., mines.ton. 8.00 - —
325 mesh, same basis.....ton. 11.00 - —
Pyroxylin scrap amber, cs., works..lb. .12 - —
black, cs., works.....lb. .10 - —
china white, ivory, cs., works, lb. .18 - —
dense, write, cs., works....lb. .10 - —
gray, cs., works.....lb. .08 - —
mixed, mottles, opaques, cs., works..lb. .04 - —
translucent pastels, cs., works, lb. .10 - —
transparent, cs., works.....lb. .20 - —
colors, cs., works.....lb. .12 - —
shavings, amber, cs., works, lb. .16 - —
colors, mixed, cs., works...lb. .10 - —
white, cs., works.....lb. .15 - —

## Q

Quassia chips, bls.....lb. .05 - .06
Quebracho extract, liquid, 25% tan, bbls., works..lb. .05⅝- —
tanks, works.....lb. .05¼- —
solid, 63%, bgs., c.l., ex dock, plus duty..lb. .04⅞- —
clarified, 64%, bgs., c.l., same basis..lb. .05 - —
pwd., bgs., c.l.....lb. .10¼- —
l.c.l., bxs.....lb. .11 - —
Queen of the meadow leaves bgs..lb. .07½- .08
Root, bgs.....lb. .10 - .11
Quercitron, crystals, bgs.....lb. .26 - —
extract, bgs., No. 1.....lb. .10 - —
No. 2.....lb. .09½- —
No. 3.....lb. .09 - —
solid, bxs.....lb. .18½- —
Quicksilver,[2,4,6] dom., flasks (76 lbs. net), dlvd., N.Y..flask. 212.00 -215.00
Quince seed, bgs.....lb. 1.35 - 1.60
Quinidine, N.F.V., cryst., cns.oz. 1.06 - —
powd., precip., cns.....oz. 1.01 - —
Sulphate, cns.....oz. .71 - —
Subject to surcharge of 8½c. per oz; see note under Quinine.
Quinine, 100 ozs., cns.....oz. .84 - —
Acetate, cns.....oz. 1.05 - —
Arsenate, cns.....oz. 1.05 - —
Arsenite, cns.....oz. 1.07 - —
Bisulphate, cns.....oz. .80 - —
Citrate, cns.....oz. .78 - —
Dihydrobromine, bots.....oz. .86 - —
Dihydrochloride, bots.....oz. .86 - —
Ethylcarbonate, cns.....oz. 1.25 - —
Ferrocyanide, cns.....oz. 1.07 - —
Formate, cns.....oz. 1.00 - —
Hydrochlorosulphate, cns....oz. .81 - —
Quinine, glycerophosphate, cns. oz. 1.20 - —
Hydrochloride, cns.....oz. .76 - —
Hydriodide, cns.....oz. 1.05 - —
Hypophosphite, cns.....oz. 1.07 - —
Phosphate, cns.....oz. .90 - —
Salicylate, cns.....oz. .79 - —
Sulphate, USP, XI, cns.....oz. .67 - —
Sulphocarbolate, cns.....oz. 1.05 - —
Tannate, cns.....oz. .63 - —
Valerate, cns.....oz. .99 - —
Tartrate, cns.....oz. 1.03 - —
Quinine buyers must pay a surcharge of 8½c. per oz. to cover present war risk insurance, ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.
Quinine-urea hydrochloride, cns.oz. .81 - —
Subject to surcharge of 8½c. per oz; see note under Quinine.

## R

R salt, dry, bbls.....lb. .55 - —
paste, dms.....lb. .53 - —
Rapeseed, Argentine, bgs.....lb. .07⅝- .08¼
Dutch, bgs.....lb. No stocks
Indian, medium, recleaned, bgs., lb. .07⅝- .08¼
Japanese ogs.....lb. No stocks
Raspberries, dried, bls.....lb. .85 - .90
Red,[2] alizarin lake, bbls., dlvd. N. of Tenn. and N. C. E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.10 - 1.90
Red, alizarin lake prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N.C., S.C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Cadmium, lithopone, deep shade, bbls., ton lots, works, frt. alld..lb. .95 - —
smaller lots.....lb. 1.00 - —
pkgs., ton lots.....lb. 1.00 - —
smaller lots.....lb. 1.05 - —
light shade, bbls., ton lots..lb. .80 - —
smaller lots.....lb. .85 - —
pkgs., ton lots.....lb. .85 - —
smaller lots.....lb. .90 - —
light-medium shade, bbls., ton lots..lb. .85 - —
smaller lots.....lb. .90 - —
pkgs., ton lots.....lb. .90 - —
smaller lots.....lb. .95 - —
maroon shade, bbls., ton lots. lb. 1.05 - —
smaller lots.....lb. 1.10 - —
pkgs., ton lots.....lb. 1.10 - —
smaller lots.....lb. 1.15 - —
deep, bbls., ton lots.....lb. 1.15 - —
smaller lots.....lb. 1.20 - —
pkgs., ton lots.....lb. 1.20 - —
smaller lots.....lb. 1.25 - —
medium shade, bbls., ton lots. lb. .90 - —
smaller lots.....lb. .95 - —
pkgs., ton lots.....lb. .95 - —
smaller lots.....lb. 1.00 - —
Cadmium, lithopone quotations are at the works, changes prepaid or allowed E. of Rocky Mts.
Selenide, bbls., light, works..lb. 2.35 - —
maroon, works.....lb. 2.90 - —
Carmine, 40, dms., 100 lbs...lb. 4.60 - —
50 lbs.....lb. 4.75 - —
cns., 5 lbs.....lb. 5.25 - —
1 lb.....lb. 5.35 - —
Crocus martis (see Red, purple oxide).
Eosin, toner, bbls.....lb. 1.35 - —
Fire toner, bbls.....lb. .85 - —
Indian, pure, bbls., f.o.b. Bethlehem, Easton, E. St. Louis, N. Y..lb. .09¼- —
80-85%, bbls., same basis...lb. .07⅞- —
Iron oxide (see Red oxide).
Lacquer maroon, bbls., same basis..lb. 1.25- —
Lake C toner, bbls., same basis, alizarin, lake, contracts..lb. .90 - —
Litho toner, bbls., same basis, alizarin, lake, contracts..lb. .60 - —
Rose, lake, bbls.....lb. .25 - .28
Pink, bbls.....lb. .20 - .25
Lithol-rubine toner, bbls., same basis, alizarin lake, contracts..lb. 1.10 - —
Maroon lake, 25%, kgs., same basis, alizarin lake, contracts..lb. .40 - —
Mercury oxide, tech., bbls., 10,000 lbs..lb. 3.09 - —
smaller lots.....lb. 3.11 - —
Metallic, bbls., Pa., works...lb. .02 - —
Orange, Persian (see O).
Oxide, pure, bbls., c.l., wks..lb. reduced, 85% copperas oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, E. St. Louis, Copley, Ohio..lb. .09 - —
80% copperas oxide, bbls., same basis..lb. .08¾- —
Para, toner, concent., kgs., same basis, alizarin lake, contracts..lb. .08¼- —
Persian Gulf, oxide, bbls., l.c.l. lb. .70 - —
Phloxin toner (see Red, Eosin-toner). No prices
Phosphotungstic rhodamine, Y, lgs..lb. 4.15 - —
Purple lake, kgs.....lb. .60 - 1.00
Oxide, bbls., f.o.b. Bethlehem, Easton, E. St. Louis..lb. .03½- —
Toner, kgs.....lb. 1.50 - 2.00
Scarlet ink toner, kgs., same basis alizarin lake..lb. .55 - —
Lake, kgs., same basis alizarin lake..lb. .35 - —
Spanish oxide, Grade 1, c.l., bbls., f.o.b. N.Y..lb. .04⅝- —
l.c.l. .....lb. .04⅞- —
Grade 2, c.l., bbls., f.o.b. N.Y..lb. .04½- —
l.c.l. .....lb. .04⅝- —
Toluidin toner, kgs., same basis alizarin lake..lb. 1.05 - —
Tuscan, bbls., f.o.b. N.Y., E. St. Louis..lb. .11 - .40
Venetian, bbls., works.....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02⅝- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03½- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls., f.o.b. N.Y..lb. .25 - .40
quicksilver, bbls.....lb. 3.05 - 3.17
Red dyes are listed under Dyes.
Red, precipitate, N.F., powd., fib. dms., 50 lbs. or more..lb. 3.26 - —
Red saunders wood, ground, bbls. lb. .35 - —

| | | | |
|---|---|---|---|
| Resorcinol, tech., 200-lb. dms., frt. alld. E. of Miss. | lb. | .68 | — |
| smaller quantities, works | lb. | .74 | — |
| USP, cryst., 100 lbs., dms., frt. alld. E. of Miss. | lb. | 1.80 | — |
| Rhatany root, bgs. | lb. | .10 | .11 |
| Rhubarb, No. 1, high, dried, cs. | lb. | .75 | .80 |
| powd., bbls. | lb. | .80 | .85 |
| No. 2, cs. | lb. | .65 | .70 |
| powd., bbls. | lb. | .70 | .75 |
| Riboflavin | gram | 1.50 | 2.00 |
| Rochelle salt, cryst., bbls., 5,000 lbs., 1 ship't. | lb. | .43½ | — |
| smaller lots | lb. | .44 | — |
| powd., bbls., 5,000 lbs., 1 ship't. | lb. | .42½ | — |
| smaller lots | lb. | .43 | — |
| Rose flowers, pale, bls. | lb. | .60 | .65 |
| red, bls. | lb. | 4.90 | 5.00 |
| Rosemary, flowers, bls. | lb. | .45 | .50 |
| leaves, bls. | lb. | .17 | .18 |
| Rosin, gum, B, bbls., ex dock | 100 lbs. | 3.52 | — |
| D, bbls. | 100 lbs. | 3.52 | — |
| B, bbls. | 100 lbs. | 3.52 | — |
| E, bbls. | 100 lbs. | 3.60 | — |
| F, bbls. | 100 lbs. | 3.57 | — |
| G, bbls. | 100 lbs. | 3.43 | — |
| H, bbls. | 100 lbs. | 3.43 | — |
| I, bbls. | 100 lbs. | 3.43 | — |
| K, bbls. | 100 lbs. | 3.52 | — |
| M, bbls. | 100 lbs. | 3.55 | — |
| N, bbls. | 100 lbs. | 3.60 | — |
| W. G., bbls. | 100 lbs. | 4.20 | — |
| W. W., bbls. | 100 lbs. | 4.15 | — |
| X bbls. | 100 lbs. | 4.15 | — |
| Rottenstone, dom., bgs., c.l., f.o.b. mines. | ton | 25.50 | — |
| l.c.l., f.o.b. mines | ton | 37.50 | — |
| Rue, bls. | lb. | 1.15 | 1.20 |

## S

| | | | |
|---|---|---|---|
| Sabadilla seed, powd., bbls. | lb. | .28 | .30 |
| Saccharin, dms., 100 lbs. | lb. | 1.45 | — |
| cns., 25 lbs. | lb. | 1.48 | 1.50 |
| Scullcap, Eastern, bls. | lb. | .28 | .29 |
| Western, bls. | lb. | .14 | .15 |
| Safflower, bls. | lb. | .85 | .90 |
| Saffron, Mexican, bls. | lb. | .85 | .90 |
| Spanish, tins | lb. | 44.00 | 45.00 |
| Safrol, cns. | lb. | 1.60 | 1.75 |
| dms. | lb. | No prices | |
| Sage, Cyprus, bls. | lb. | .80 | .82 |
| Dalmatian, bls. | lb. | 2.00 | 2.05 |
| ground, bls. | lb. | 2.25 | 2.30 |
| Greek, bls. | lb. | 1.60 | 1.70 |
| Spanish, bls. | lb. | .39 | .40 |
| Sago flour, bgs. | lb. | .04¾ | .05¼ |
| Salicin, bots., 5 lbs. | lb. | 7.00 | — |
| cns., 25 lbs. | lb. | 6.75 | — |
| Salol, gran., bbls., 200-lbs. | lb. | .90 | — |
| bxs., 25 lbs. | lb. | .93 | — |
| kgs., 100 lbs. | lb. | .90 | — |
| powd., fib. dms., 25 lbs. | lb. | 1.03 | — |
| kgs., 100 lbs. | lb. | 1.00 | — |
| Salt, rock, bgs., divd. N.Y. | ton | 14.20 | |
| c.l., bgs., dlvd. N.Y. | ton | 17.00 | 18.00 |
| vacuum, common, fine, bgs., c.l., dlvd. N. Y. | ton | 15.70 | — |
| l.c.l., dlvd. N. Y. | ton | 19.40 | 23.20 |
| Chrome (see Chrome cake). | | | |
| Saltcake, dom., bulk, works. | ton | 15.00 | — |
| import, bulk, c.i.f. | ton | 16.00 | Nom |
| Saltpeter, dbl. refined, cryst., 10-20 tons, bbls. | 100 lbs. | 9.10 | 10.10 |
| 1-9 tons | 100 lbs. | 9.25 | 10.25 |
| less than ton lots. | 100 lbs. | 9.50 | 10.50 |
| Saltpeter, dbl. refd., gran., bbls., 10-20 tons | 100 lbs. | 8.10 | — |
| 1-9 tons | 100 lbs. | 8.25 | — |
| less than ton lots. | 100 lbs. | 8.50 | — |
| powd., bbls., 10-20 tons | 100 lbs. | 9.10 | — |
| 1-9 tons | 100 lbs. | 9.25 | — |
| less than ton lots. | 100 lbs. | 9.50 | — |
| Santonin, cryst., cns. | kilo. | 195.00 | 205.00 |
| Saponin, crude, cns. | lb. | 2.25 | 2.50 |
| Purified, cns., 25 lbs. | lb. | 3.00 | 3.25 |
| Sarsaparilla root, Honduras, bls., | lb. | .32 | .33 |
| Mexican, bls. | lb. | .19 | .20 |
| Sassafras, bark, ord., bls. | lb. | .13 | .14 |
| select, bls. | lb. | .26 | .28 |
| Savory, bls. | lb. | 1.00 | 1.10 |
| Saw palmetto berries, bgs. | lb. | .08 | .09 |
| Scammony root, bgs. | lb. | .07 | .08 |
| resin, lump, cns. | lb. | .85 | — |
| powd., bxs. | lb. | .90 | — |
| Schaeffer's salt, bgs. | lb. | .46 | — |
| Seidlitz mixture, bbls., 5,000 lbs., 1 shipment. | lb. | .33¾ | — |
| smaller lots | lb. | .34¼ | — |
| kegs, 5,000 lbs., 1 shipm't. | lb. | .34¼ | — |
| smaller lots | lb. | .34¾ | — |
| Selenium, pwd. A, 10-lb. tins. | lb. | 2.00 | — |
| 100-lb. cases | lb. | 1.75 | — |
| Senega root, spot, bls. | lb. | .95 | 1.00 |
| Senna leaves, Alexandria, half leaf, bls. | lb. | .18 | .20 |
| siftings, bgs. | lb. | .17 | .19 |
| Tinnevelly, No. 1, bls. | lb. | .14 | .15 |
| 2 bls. | lb. | .11 | .13 |
| 3 bls. | lb. | .10 | .11 |
| powd., bbls., bxs. | lb. | .13 | .14 |
| Pods., bls. | lb. | .11 | .12 |
| Serpentaria root, bls. | lb. | .65 | .75 |
| Shellac, bleached, bonedry, bbls., f.o.b. N. Y. | lb. | .39 | .40 |
| dlvd., Boston | lb. | .40 | .41 |
| Chicago | lb. | .40½ | .41½ |
| Pacific Coast | lb. | .42½ | .43½ |
| rfd., bbls., f.o.b. N. Y. | lb. | .45 | .46 |
| dlvd., Boston | lb. | .45½ | .46½ |
| Chicago, | lb. | .46¾ | .47¾ |
| Pacific Coast | lb. | .48¾ | .49¾ |
| Garnet, bags | lb. | .37 | .39 |
| D.C., V.S.O., or Diamond 1, cs., | lb. | .43 | .45 |
| superfine, bgs., f.o.b. Boston, N. Y. | lb. | .33 | .34 |
| dlvd., Chicago | lb. | .33½ | .34½ |
| Pacific Coast | lb. | .36 | .37 |
| T.N., bgs., f.o.b., Boston, N.Y., | lb. | .32 | .33 |
| dlvd., Chicago | lb. | .32½ | .33½ |
| Pacific Coast | lb. | .35½ | .36½ |
| Shellac, varnish, Metro area, orange, 5-lb. cut, bbls., | gal. | 1.70 | 1.75 |
| 4½-lb. cut, bbls. | gal. | 1.65 | 1.70 |
| 4-lb. cut, bbls. | gal. | 1.60 | 1.65 |
| white, 5-lb. cut, bbls. | gal. | 1.85 | 1.90 |
| 4½-lb. cut, bbls. | gal. | 1.80 | 1.85 |
| 4-lb. cut, bbls. | gal. | 1.75 | 1.80 |
| Prices, dlvd., Boston or Chicago, 10c. per gal. higher. | | | |
| Silica, amorph., dry-grd., 95-97%, 325 mesh, bgs., c.l., works. | ton | 17.00 | — |
| l.c.l., 2½ tons, works, | ton | 19.00 | — |
| smaller lots, works. | ton | 20.00 | — |
| wet-grd., 95-97%, 325 mesh, bgs., c.l., works. | ton | 19.00 | — |
| l.c.l., 2½ tons, works, | ton | 21.00 | — |
| smaller lots, works. | ton | 25.00 | — |
| Silica, amorph. wet-grd. 400 mesh, bgs., c.l., works. | ton | 30.00 | — |
| l.c.l., 2½ tons, works. | ton | 35.00 | — |
| smaller lots, works. | ton | 38.00 | — |
| 96-98% 325 mesh, bgs., c.l., works. | ton | 20.00 | — |
| l.c.l., 2½ tons, works. | ton | 21.50 | — |
| smaller lots, works. | ton | 23.00 | — |
| 99% 325 mesh, bgs., c.l., works. | ton | 22.00 | — |
| med., grd., 99% 325 mesh, l.c.l., 2½ tons, works. | ton | 25.50 | — |
| hard-quartz, 99½%, 325 mesh, bgs., c.l., works. | ton | 13.50 | — |
| l.c.l., works. | ton | 18.50 | — |
| 140 mesh, bgs., c.l., works, | ton | 11.00 | — |
| l.c.l., works | ton | 16.00 | — |
| Silver, bullion | oz. | .35½ | — |
| Govt. purchase, dom., metal, | oz. | .7111 | — |
| Govt. purchase, foreign metal, | oz. | .35 | — |
| Cyanide, cns., 100 ozs. | oz. | .34 | — |
| Nitrate, 100-oz. bots. | oz. | .26% | — |
| Nucleinate, bots., dms. | oz. | .29 | .34 |
| Protelnate, bots., dms. | oz. | .28 | .33 |
| Simarubra barks, bls. | lb. | .45 | .50 |
| Skunk cabbage root, bls. | lb. | .11 | .12 |
| Slate flour, bgs., c.l., works. | ton | 9.00 | — |
| l.c.l., works | ton | 10.00 | 15.00 |
| Sloe berries, bgs. | lb. | .60 | .65 |
| Smalt, black, extra velvet, ctns., | lb. | .05 | .08 |
| Blue, ctns. | lb. | .07 | .08½ |
| Snakeroot, Canada, bls. | lb. | .24 | — |
| Soapbark, bls. | lb. | .09 | .10 |
| crushed, bls., bbls. | lb. | .13 | .13½ |
| cut, German, bls., bbls. | lb. | No stocks | |
| dom., bbls. | lb. | .15 | .16 |
| powd., bbls. | lb. | .15 | .16 |
| Soda, acetate, anhyd., dms., dlvd. | lb. | .08½ | .10 |
| flake, gran., powd., 60%, dms., c.l., dlvd. | lb. | .04½ | .05 |
| l.c.l., dlvd. | lb. | .05 | .06 |
| USP, bbls., dlvd. | lb. | .06 | .07 |
| Alginate, dms., bbls., works. | lb. | .69 | .73 |
| Aluminate, white soluble, c.l., bgs., frt. equald. | 100 lbs. | 7.50 | — |
| dms., frt. equald. | 100 lbs. | 7.75 | — |
| l.c.l., bgs., frt. equald. | 100 lbs. | 8.40 | — |
| dms., frt. equald. | 100 lbs. | 8.65 | — |
| Antimoniate, bbls., dlvd. | lb. | .15 | .15½ |
| Arsenate, dms., dealers., cl., works. | lb. | .08 | — |
| l.c.l., dms. | lb. | .09½ | .09¾ |
| Arsenite, dry, gray, dms., c.l., dealers, works. | lb. | .06¾ | — |
| l.c.l., dms., works. | lb. | .07½ | .08½ |
| white, dms., c.l., dealers, works. | lb. | .07¾ | — |
| l.c.l., dms., works. | lb. | .08½ | .09¼ |

Soda arsenite, dry, gray, prices are ¾c. per pound higher in Chicago; 1c. per pound higher in Houston, Tex., and Colorado. White prices are 1c. per pound higher in Tex. and Colo.

| | | | |
|---|---|---|---|
| Soda, ash, dense, 58%, bgs., c.l., works. | 100 lbs. | 1.15 | — |
| l.c.l., Zone 1 | 100 lbs. | 2.18 | — |
| 2 | 100 lbs. | 2.33 | — |
| 3 | 100 lbs. | 2.58 | — |
| 4 | 100 lbs. | 2.98 | — |
| bbls., c.l., works. | 100 lbs. | 1.35 | — |
| l.c.l., Zone 1 | 100 lbs. | 2.35 | — |
| 2 | 100 lbs. | 2.50 | — |
| 3 | 100 lbs. | 2.75 | — |
| 4 | 100 lbs. | 3.15 | — |
| bulk, c.l., works. | 100 lbs. | .95 | — |

### Resorcinol—Soda Ash

| | | | |
|---|---|---|---|
| Soda ash, extra light, 58%, bgs., c.l. | 100 lbs. | 1.05 | 1.13 |
| l.c.l., Zone 1 | 100 lbs. | 2.13 | — |
| 2 | 100 lbs. | 2.28 | — |
| 3 | 100 lbs. | 2.53 | — |
| 4 | 100 lbs. | 2.93 | — |
| bbls., c.l., works. | 100 lbs. | 1.45 | — |
| l.c.l., Zone 1 | 100 lbs. | 2.45 | — |
| 2 | 100 lbs. | 2.60 | — |
| 3 | 100 lbs. | 2.85 | — |
| 4 | 100 lbs. | 3.25 | — |
| bulk, c.l. | 100 lbs. | .90 | — |
| light, 58%, bgs., c.l., works, | 100 lbs. | 1.05 | 1.13 |
| l.c.l., Zone 1 | 100 lbs. | 2.13 | — |
| 2 | 100 lbs. | 2.28 | — |
| 3 | 100 lbs. | 2.53 | — |
| 4 | 100 lbs. | 2.93 | — |
| bbls., c.l., works. | 100 lbs. | 1.35 | — |
| l.c.l., Zone 1 | 100 lbs. | 2.35 | — |
| 2 | 100 lbs. | 2.50 | — |
| 3 | 100 lbs. | 2.75 | — |
| 4 | 100 lbs. | 3.15 | — |
| bulk, c.l. | 100 lbs. | .90 | — |

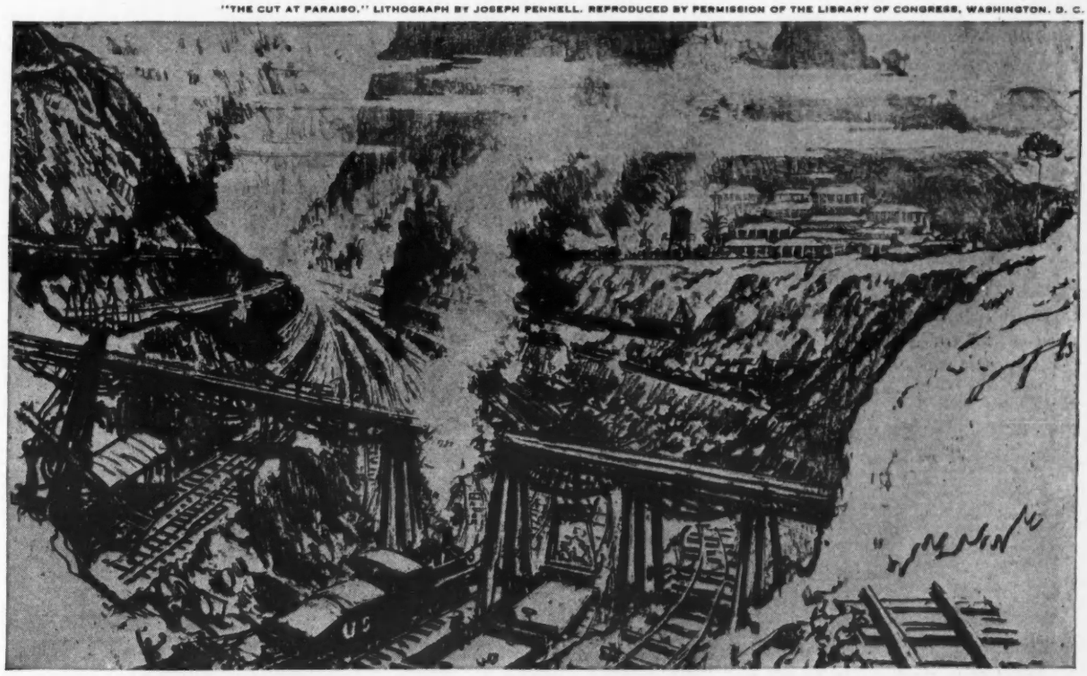
Soda ash l.c.l. prices are per 100 lbs. f.o.b. recognized warehouse point and include delivery in any quantity to customer's sidewalk within recognized local trucking distance of seller's warehouse. The sales zones are:—Zone 1: All Northern U.S. E. of Miss. River and North of the Southern boundaries of Ky. and Va., including also St. Louis, Mo., and Davenport, Ia., parallel La., Miss., Ala., South of 31° Texas, E. of 100° Meridian and S. of 31° parallel and Fla., in Me., N. H. and Vt.;


HAD THE PURPOSE been merely to unite two great bodies of water, the Panama Canal in all probability would never have been built. Instead, it was the dream of far-sighted men to achieve a new and greater service for the commerce of man by building this waterway that would join the Atlantic and the Pacific Oceans.

Similarly, two companies, each great in its own right, may enlarge their usefulness by establishing a union between their respective enterprises.

A TESTAMENT TO PROGRESS AND SERVICE...

"THE CUT AT PARAISO." LITHOGRAPH BY JOSEPH PENNELL. REPRODUCED BY PERMISSION OF THE LIBRARY OF CONGRESS, WASHINGTON, D. C.



With the Niagara Alkali Company, the Electro Bleaching Gas Company has now been combined to form a single, but larger institution in the fields of chemical manufacture and research.

The Niagara Alkali Company pledges to sustain the high quality and integrity of the products of its manufacture as heretofore. At the same time, the Niagara Alkali Company will be able to extend to old customers the new and greater service that is made possible by broadened facilities, expanded resources, and experience.

Niagara
ALKALI COMPANY
60 EAST 42nd STREET, NEW YORK, N. Y.

CAUSTIC POTASH • CAUSTIC SODA
PARA • CARBONATE OF POTASH
Liquid Chlorine

EBG NIAGARA ALKALI COMPANY

## Soda Benzoate—Timbo Root

**special local zone prices apply for ship't to various counties. Zone 2: Ark. East of 98° Meridian; Neb., E. of 98° Meridian; Tex., N. of 31° parallel and E. of 100° Meridian (except Wichita Falls), Ala., La., and Miss. N. of 31° parallel; Iowa (except Davenport), Ga., Minn., Mo. (except St. Louis), N. and S. C. and Tenn. Zone 3: Kansas, Neb., W. of 98° Meridian, Tex., W. of 100° Meridian (including Wichita Falls, but excluding El Paso), N. and S. D., Okla., Ark., W. of 93° Meridian. Zone 4: El Paso, Tex.; Ariz., Colo., Idaho, Mont., Nev., N. M., Utah and Wyoming**

**Soda, benzoate, tech., bbls., 4,000 lbs. or more**..lb. .29 - —
1,000 to 3,900 lbs.....lb. .40 - —
900 lbs. or less.....lb. .43 - —
USP, bbls., fib., 4,000 lbs. or more..lb. .46 - —
1,000 to 3,900 lbs.....lb. .47 - —
900 lbs. or less.....lb. .50 - —
Bicarbonate, tech., bbls., c.l., works..100 lbs. 1.70 - —
l.c.l. .....100 lbs. 2.05 - —
bgs., c.l.....100 lbs. 1.55 - —
l.c.l. .....100 lbs. 1.90 - —
USP, gran., bbls., c.l., works, 100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.60 - —
powd., bbls., c.l., works.... 100 lbs. 1.85 - —
l.c.l., dlvd., N.Y..100 lbs. 2.51 - —
kgs., c.l.....100 lbs. 2.10 - —
l.c.l., dlvd., N.Y..100 lbs. 2.76 - —
Bichromate,[3] [5] spot, c.l., wks., lb. .07¾- —
l.c.l., 6 cks., or 10 bbls. or over, works..lb. .07½- —
5 cks. or 9 bbls. or less, works..lb. .07¾- —
**Bifluoride, bbls., c.l.**.....lb. .11 - —
10 bbls. lots.....lb. .11½ - .13
1-9 bbls.....lb. .12 - —
kegs .....lb. .12½- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solution, 32 deg., bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., bbls., works..100 lbs. 1.55 - —
33 deg., bbls., c.l., works, 100 lbs. 1.35 - —
l.c.l., bbls., works..100 lbs. 1.60 - —
35 deg., c.l., works..100 lbs. 1.40 - —
l.c.l., bbls., works..100 lbs. 1.65 - —
44 deg., bbls., works.100 lbs. 1.55 - —
l.c.l., bbls., works..100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs.....lb. .27 - .31
fiber dms., 100 lbs.....lb. .28 - .32
Cacodylate, 1-kilo bots.....lb. No prices
**Carbonate (see Soda ash, soda monohydrated. soda sal).**
Caustic, flake, 76% powd., ammon, process, bbls., c.l., works..100 lbs. 2.95 - —
dms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1....100 lbs. 3.55 - 4.90
2 .....100 lbs. 3.70 - 5.05
3 .....100 lbs. 3.95 - 5.30
4 .....100 lbs. 4.35 - 5.70
electro process, dms., c.l., works..100 lbs. 2.70 - —
L.c.l., same zone prices as ammonia process
liquid, 47-49%, buyers' tanks, works..100 lbs. 1.92½- —
sellers' tanks, works..... 100 lbs. 1.95 - —
70%, buyers' tanks, works, 100 lbs. 1.97½- —
sellers' tanks, works..... 100 lbs. 2.00 - —
solid, 76% ammon., process, dms., c.l., works..100 lbs. 2.30 - —
l.c.l., Zone 1....100 lbs. 3.15 - —
2 .....100 lbs. 3.30 - —
3 .....100 lbs. 3.55 - —
electro process, dms., c.l., works..100 lbs. 2.30 - —
**Soda, caustic, solid, electro process, dms., l.c.l., same zone prices as ammon. process. Caustic soda, l.c.l., prices are on the same basis as those for soda ash. The sales zones are also the same**
Chlorate, dom., cryst., bgs., c.l., works..lb. .06¾- —
l.c.l., works.....lb. .06¾- —
powd., bgs., c.l., works..lb. .06¾- —
l.c.l., works.....lb. .07 - .08¼
Chromate,[3] spot, c.l., works, lb. .08¾- —
l.c.l., 6 cks., 10 bbls. or over, works..lb. .09½- —
**Citrate, USP VIII, 225-lb. bbls.** lb. .18½- —
cns., dms., 50-lb. lots....lb. .20½- —
25-lb. lots.....lb. .22½- .23¼
dms., kgs., 100-lb. lots...lb. .19½- —
USP XI, gran., bbls., 250-lb. lots..lb. .24 - —
boxes, 50-lb. lots.....lb. .26 - —
cns., 25-lb. lots.....lb. .28 - .29
kgs., 100-lb. lots.....lb. .25 - —
powd., bbls., 250-lb.lots..lb. .24½- —
boxes, 50-lb. lots.....lb. .26½- —
cns., 25-lb. lots.....lb. .29½- —
kgs., 100-lb. lots.....lb. .25½- —
Cyanide, 96-98%, dom., dms., lb. .14 - .15
Imports, 96%, cs.....lb. No prices
Diacetate, 33-35% acidity, bbls., dlvd..lb. .10 - —
anhy., dms., dlvd.....lb. .12½- —
Fluoride, white, 30%, bbls., c.l., frt. alld..lb. .08 - —
l.c.l., 10 or over, same basis..lb. .08½- —
1-9, same basis.....lb. .09 - —
95%, bbls., c.l., same basis.lb. .08¾- —
l.c.l., 10 or over, same basis..lb. .08¾- —
1-9, same basis.....lb. .09¼- —
**Soda fluoride prices at Los Angeles are f.a.s. works.**
Glycerophosphate, NF, cryst., bbls., 1,000-lb. lots....lb. 1.25 - —
100-lb. lots.....lb. 1.40 - —
cns., 25 lbs.....lb. 1.65 - —
powd., bbls., 1,000-lb. lots.lb. 1.80 - —
100-lb. lots.....lb. 1.40 - —
cns., 25 lbs.....lb. 1.70 - —
solution, cbys., cns.....lb. .82 - 1.02
Hydrosulphite,[2] dms., frt. alld, lb. .17 - .18
Hydroxide, USP, sticks, cns., 100 to 1,000-lb lots..lb. .22 .24
Hypophosphite, N. F., cns., 100-lb. lots..lb. .67 - —
Hyposulphite, cryst., large, bgs., works, frt. equal'd..100 lbs. 2.25 - —
bbls., same basis..100 lbs. 2.45 - —
l.c.l., bge., works, frt. equal'd..100 lbs. 2.50 - —
bbls., same basis..100 lbs. 2.70 - —
pea, bgs., c.l., works.100 lbs. 2.60 - —
bbls., works.....100 lbs. 2.80 - —
dms., works.....100 lbs. 3.10 - —
5,000 lbs. and over, bgs., works..100 lbs. 2.75 - 3.00
bbls., works.....100 lbs. 2.95 - 3.20
dms., works.....100 lbs. 3.25 - 3.60

Soda, hyposulphite, pea, 2,500 to 5,000 lbs., bgs., works.... 100 lbs. 2.85 - 3.10
bbls., works.....100 lbs. 3.05 - 3.30
dms., works.....100 lbs. 3.35 - 3.60
500 to 2,500 lbs., works.... 100 lbs. 3.10 - 3.25
bbls., works.....100 lbs. 3.30 - 3.55
dms., works.....100 lbs. 3.60 - 3.85
pea, less than 500 lbs., bgs., works..100 lbs. 2.70 - 3.95
bbls., works.....100 lbs. 4.00 - 4.15
dms., works.....100 lbs. 4.20 - 4.45
Iodate, jars.....lb. 5.49 - —
Iodide, jars.....lb. 2.42 - —
bots. .....lb. 2.52 - 2.57
Mandelate, 100-lb. dms.....lb. 3.25 - —
Metanilate, bgs.....lb. .40 - —
Metasilicate, anhyd., dms., c.l., works, frt. equald.... 100 lbs. 4.00 - —
15 dms. and over, dlvd. N.Y..100 lbs. 4.90 - —
3-14 dms., same basis... 100 lbs. 5.05 - —
1-2 dms., same basis.... 100 lbs. 5.30 - —
gran., bbls., c.l., works....lb. 2.50 - —
10 bbls. and over, dlvd. N.Y..lb. 3.30 - —
1-9 bbls., dlvd. N.Y.....lb. 3.55 - —
Molybdate, anhyd., kgs., works, lb. .47 - —
Monohydrated, bbls.....100 lbs. 2.60 - —
works .....100 lbs. 2.30 - —
Naphthionate, bbls.....lb. .50 - —
Nitrate, crude, dom., c.l., 100-lb. bgs., dlvd., f.o.b. cars, producing points or ports, rail or boat shipment .....ton.30.05 - —
200 lb. bgs., same basis, ton.29.35
bulk, same basis.....ton.27.00 - —
imp., c.l., 100-lb. bgs., f.o.b. cars, Atl., Gulf, Pac. warehouses, rail or boat shipment.....ton.33.00 - —
200-lb. bgs., same basis, ton.32.40 - —
bulk, same basis....ton.30.00 - —
refd., gran., bbls., 10 tons, 100 lbs. 2.50 - —
1-9 tons.....100 lbs. 2.65 - —
smaller lots.....100 lbs. 2.90 - —
powd., bbls., 10 tons.100 lbs. 5.50 - —
1-9 tons.....100 lbs. 5.65 - —
Nitrite, 96-98%, dom., bbls., c.l., works, frt. equalized..lb. .06¾- —
96-98%, dom., bbls., c.l., West Coast, f.o.b. ports....lb. .08 - —
l.c.l. .....lb. .08¼- .11¼
**Soda nitrite l.c.l. prices range represents delivery at various points.**
Orthosilicate, anhyd., dms., c.l., works, frt. equald..lb. 4.50 - —
15 dms. and over, same basis..lb. 5.45 - —
3-14 dms., same basis..lb. 5.60 - —
1- 2 dms., same basis..lb. 5.85 - —
flake, dms., c.l., works.100 lbs. 3.15 - —
10 bbls. and over, dlvd. N.Y.C..100 lbs. 4.30 - —
1-9 bbls., same basis..100 lbs. 4.55 - —
Oxalate, neut., bbls.....lb. .09¼- —
**Perborate, NF, bbls., c.l., works,** lb. .14⅜- —
l.c.l., works.. .....lb. .15¼- —
Pentachlorphenate briquets, single bgs., works..lb. .26 - —
70 lbs., bgs., works.....lb. .19½- —
490 lbs., bgs., works.....lb. .17½- —
powd., 100 lbs., bgs., works, lb. .19 - —
500 lbs., bgs., works.....lb. .17 - —
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 6.00 - 6.25
l.c.l., works.....100 lbs. 6.15 - 7.25
bbls., c.l., works...100 lbs. 6.20 - 6.45
l.c.l., works.....100 lbs. 6.70 - 7.45
cryst., tech., bgs., c.l., works, 100 lbs. 2.55 - 2.70
l.c.l., works.....100 lbs. 2.95 - 3.45
bbls., c.l., works...100 lbs. 2.75 - 2.90
l.c.l., works.....100 lbs. 3.15 - 3.62
monobasic, anhyd., bgs., c.l., works.....100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 8.00 - 9.00
bbls., c.l., works....100 lbs. 7.45 - 8.45
l.c.l., works.....100 lbs. 8.20 - 9.20
tribasic, bgs., c.l., works...lb. 2.70 - 2.85
l.c.l., works .....100 lbs. 3.10 - 3.60
bbls., c.l., works...100 lbs. 2.90 - 3.05
l.c.l., works.....100 lbs. 3.30 - 3.80
kegs, c.l., works...100 lbs. 3.40 - 3.55
l.c.l., works.....100 lbs. 3.75 - 4.30
**USP (dibasic), bbls., dms., works..lb. .08 - .10**
**dried, bbls., dms., works...lb. 11¼- .16**
Picramate, kgs.....lb. .65 - —
Prussiate, yellow, bbls., 10,000 lbs. or more...lb. .11 - —
contracts .....lb. .10 - —
smaller lots .....lb. .11¼- —
contracts .....lb. .10¼- —
Pyrophosphate, anhyd, bgs., c.l., works, frt., equale'd... 100 lbs. 5.25 - 6.10
**5 tons and over same basis..** 100 lbs. 5.40 - 6.25
**less than 5 tons same basis,** 100 lbs. 5.75 - 6.60
bbls., c.l., works, frt. equalized..100 lbs. 5.45 - 6.30
**5 tons and over same basis,** 100 lbs. 5.60 - 6.45
**less than 5 tons same basis,** 100 lbs. 5.95 - 6.80
Ricinoleate, tech., bbls.....lb. .12 - —
Sal. bgs., dlvd., N. Y..100 lbs. 1.29 - —
works .....100 lbs. 1.00 - —
bbls., dlvd., N. Y.....100 lbs. 1.30 - —
works .....lb. 1.10 - 1.30
Salicylate, bxs.....lb. .52 - .55
Sesquicarbonate, bgs., c.l., works...100 lbs. 1.50 - —
bbls., c.l., works....100 lbs. 1.70 - —
bbls., l.c.l., Zone 1....100 lbs. 2.70 - —
2 .....100 lbs. 2.85 - —
3 .....100 lbs. 3.10 - —
4 .....100 lbs. 3.50 - —
**Soda sesquicarbonate l.c.l. prices are on same basis as those for soda ash and caustic soda. The sales are also the same.**
Sesquisilicate, dms., c.l., works, 100 lbs. 3.05 - —
10 bbls. or over, dlvd. N.Y.C., 100 lbs. 4.05 - —
1-9 bbls.....100 lbs. 4.30 - —
Silicate, 40° turbid, dms., c.l., works...100 lbs. .80 - —
l.c.l., 5 or more, works, 100 lbs. 1.05 - —
1 to 4, works....100 lbs. 1.20 - —
52°, dms., c.l., works.100 lbs. 1.40 - —
l.c.l., 5 or more, works, 100 lbs. 1.65 - —
1 to 4, works....100 lbs. 1.80 - —
Silicofluoride, dom., bbls.....lb. .12 - .15
Stannate, dms.....lb. .33½- .36¼
Stearate, lump, powd., bbls., works..lb. .19 - .24

Soda, sulphate, anhyd., bgs., bbls., c.l., works..100 lbs. 1.70 - 1.90
5 tons or over, works, 100 lbs. 1.95 - 2.15
less than 5 tons, works, 100 lbs. 2.20 - 2.40
cryst. (see Glauber's salt).
Sulphate, N.V. VI, exsiccated, powd., bbls..lb. .07 - .07½
U.S.P. cryst., gran., bbls..lb. .10 - .10½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.40 - —
l.c.l., 5 tons or over, dlvd. 100 lbs. 2.90 - —
less than 5 tons, dlvd. 100 lbs. 3.15 - —
solid, bbls., c.l., works..... 100 lbs. 3.15 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 3.60 - —
less than 5 tons, dlvd. 100 lbs. 3.90 - —
Sulphite, cryst., bgs., 100 lbs., works..lb. 2.10 - 2.35
bbls. .....100 lbs. 2.30 - 2.55
powd., bbls., c.l.....100 lbs. 5.25 - —
l.c.l., 5 or more...100 lbs. 5.50 - —
1 to 4.....100 lbs. 6.00 - —
Sulphocarbolate, gran., bbls., dms..lb. .26 - .28
Sulphocyanide, C.P., dms....lb. .55 - .65
Sulphohydrate, liquid, 38%, basis 100%, dms., c.l., f.o.b. works..lb. .05½- —
l.c.l., works.....lb. .06 - —
single dm. lots, works...lb. .08 - —
tanks, works.....lb. .04½- —
flake, 70-72%, dms., c.l., works, lb. .04½- —
l.c.l., works.....lb. .05 - —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiosulphate (see Hyposulphite).
Tungstate, CP, kgs.....lb. No prices
tech., kgs.....lb. 1.35 - 1.50
Solvent, naphtha,[2] dms., wks.gal. tanks, E. of Omaha, frt. alld.. gal. .27 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
high-flash, dms., works...gal. .32 - —
tanks, E. of Omaha, frt. alld..gal. .27 - —
Sorbitol, com'l, dms., works...lb. .17¾- —
Soybean meal, 41%, bgs.....ton.47.70 - —
**protein, bgs., c.l., works.....lb. .20 - —**
**l.c.l., 10-20 tons, works.....lb. .20¼- —**
**100-20,000 lbs., works.....lb. .20½- —**
**smaller lots, works.....lb. .24 - —**
Sparteine sulphate, cns.....oz. 3.65 - 4.00
Spearmint leaves, bls.....lb. .33 - .35
Spikenard root, bls.....lb. .16 - .17
Spruce extract, reg., bbls., c.l., works..lb. .01¾- —
tanks, works.....lb. .01¼- —
powd., super, bgs., c.l., works, lb. .04½- —
super, bbls., c.l., works.....lb. .02 - —
tanks, works.....lb. .01½- —
Squawvine, leaves, bls.....lb. .14 - .15
Squill, red, powd.....lb. .58 - .60
White, bls.....lb. .18½- .19
powd., bbls., bxs.....lb. .24 - .25
St. Ignatius beans, bgs.....lb. .45 - .46
St. John's Bread, edible, bls., lb. .15 - .20
inedible, bls.....lb. .06 - .10
Starch, corn, pearl, bgs., f.o.b. Chicago..100 lbs. 3.10 - —
dlvd., N. Y.....100 lbs. 3.45 - —
powd., bgs., f.o.b. Chicago, 100 lbs. 3.20 - —
dlvd., N. Y.....100 lbs. 3.55 - —
Potato, dom., bgs., c.l.....lb. .0610- —
l.c.l. .....lb. .0735- —
import, bgs.....lb. No prices
rice, bgs.....lb. .09 - .10
Sweetpotato, bgs.....lb. .06¼ Nom.
bbls. .....lb. .07 Nom.
Wheat, thick, boil, bgs.....lb. .05 - —
Starch, iodide, bots.....lb. 1.87 - —
Staveacre, seed, bgs.....lb. .35 - .40
Stearin, oleo.....lb. .11 - .11½
Stillingia root, bls.....lb. .09 - .10
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 2.00 Nom.
Stramonium leaves, bls.....lb. .27 - .30
Strontium bromide, cns.....lb. .53 - .55
Carbonate, NF, IV, 250-lb. bbls..lb. No prices
tech., 90%, precip., bbls....lb. .15 - .18
Chloride, tech., bbls.....lb. .22 - .25
Iodide, bots., 5 lbs.....lb. 3.06 - —
jars, 25 lbs.....lb. 3.00 - —
Nitrate, dom., bbls., c.l., wks., lb. .07¾- —
25 bbls. and over.....lb. .08¾- —
1-24 bbls. and over.....lb. .09¾- —
Oxalate, bbls.....lb. .44 - —
Strophanthus seed, Kombe, bgs.lb. 3.75 - 4.00
Strolyl, acetate, bots.....lb. 3.10 - 3.25
Strychnine, cryst., cns., 100-oz. lots..oz. .70 - —
Acetate, 25-oz. cns., 100-oz. lots..oz. .79 - —
Arsenate, 25-oz. cns., 100-oz. lots..oz. .82 - —
Arsenite, 25-oz cns., 100-oz. lots..oz. .79 - —
Glycerophosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Hydrochloride, 25-oz. cns., 100-oz. lots..oz. .79 - —
Hypophosphite, 25-oz. cns., 100-oz lots..oz. .91 - —
Nitrate, 25-oz. cns., 100-oz. lots..oz. .73 - —
Phosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Sulphate, cryst., cns., 100-oz. lots..oz. .58 - —
powd., cns., 100-oz. lots.oz. .48 - —
Sucrose Octa-acetate, C.P. grade., bbls., l.c.l., works..lb. .55 - —
denat., bbls., l.c.l., works..lb. .45 - —
tech., bbls., l.c.l., works.....lb. .40 - —
Sugar coloring, bbls.....gal. .75 - 1.45
Milk, bbls., c.l.....lb. .25 - —
l.c.l., 10 or over.....lb. .26 - —
less than 10.....lb. .27 - —
Sulfadiazine, tablets, bots., 50's, ea. 4.86 - —
100's .....ea. 8.46 - —
1,000's .....ea.72.00 - —
Sulfaguanidine, 3.5-gm. bot..doz, 3.50 - —
4-oz bots.....ea. 8.10 - —
1-lb. bots.....ea.30.00 - —
Sulfanilamide, 5 lbs., bots....lb. 1.70 - —
f.b. dms., 1,000 lbs., 1 delivery, lb. 1.25 - —
100 lbs.....lb. 1.30 - —
25-lb. lots.....lb. 1.45 - —
Sulfapyridine, powd., for hospitals, 5-gram bots..ea. .50 - —
Sulfathiazole, 5-gm., bot.....ea. .42 - —
Sesquicarbonate, 5-gm, bot..ea. .42 - —
Sulfonethylmethane, kgs.....lb. 6.75 - 6.80
Sulphonmethane, kgs.....lb. 5.25 - —

**Sulphur, crude, bulk, f.o.b. cars, mines, contracts..long ton.16.00 - —**
**f.o.b. steamers, Gulf ports, contract..long ton.17.50 - —**
flowers, USP, bgs., c.l.....100 lbs. 3.05 - —
l.c.l. .....100 lbs. 3.55 - —
bbls., c.l.....100 lbs. 3.40 - —
l.c.l. .....100 lbs. 3.90 - —
flour, comm'l bgs., c.l..100 lbs. 1.65 - —
l.c.l. .....100 lbs. 2.15 - —
refined, cast, bgs., c.l....100 lbs. 2.20 - —
l.c.l. .....100 lbs. 2.70 - —
Sulphur, refined, heavy, USP, bgs., c.l..100 lbs. 2.60 - —
l.c.l .....100 lbs 3.10 - —
bbls., c.l.....100 lbs. 2.95 - —
l.c.l. .....100 lbs. 3.45 - —
light, USP, bgs., c.l..100 lbs. 2.70 - —
l.c.l. .....100 lbs. 3.20 - —
bbls., c.l.....100 lbs. 3.05 - —
l.c.l. .....100 lbs. 3.55 - —
lump, bgs., c.l.....100 lbs. 2.20 - —
l.c.l. .....100 lbs. 2.70 - —
bbls., c.l.....100 lbs. 2.55 - —
l.c.l. .....100 lbs. 3.05 - —
roll, bgs., c.l.....100 lbs. 2.40 - —
l.c.l. .....100 lbs. 2.90 - —
**Prices at the mine for various grades refined sulphur 25c. less per 100 pounds.**
**Rubbermakers, comm'l, 99½%, bgs., c.l., frt. alld..100 lbs. 2.05 - —**
**refined, 100%, bgs., c.l., frt alld..100 lbs. 2.40 - —**
Chloride, 55-gal. dms., c.l....lb. .03 - .03¼
l.c.l., dms., works....lb. .04 - .04¼
10-gal. dms., c.l.....lb. .07 - .07¾
l.c.l. .....lb. .08 - .08¾
Dioxide, liquid, com'l., cyls., works..lb. .07 - .09
multi-unit, cars, works..lb. .04½- .07
tanks, works.....lb. .04 - .06
refrigeration, cyls., works..lb. .16 - .40
multi-unit cars, works..lb. .07½- .10
Iodide, bots., jars.....lb. 3.90 - 4.05
Precipitated, USP, bbls.....lb. .17 - .22
Sumac, grd., Sicilian, f.a.s....ton. No prices
leaf, f.a.s.....ton. No prices
extract, bbls., No. 1.....lb. .08 - —
No. 2.....lb. .07 - —
stainless, bbls.....lb. .09 - .11
Berries, bgs.....lb. .10 - .12
Sunflower seed, Calif., large, bgs., lb. .06¾- .07¼
medium, bgs.....lb. .06¼- .07
poultry .....lb. .05¼- .05¾
Superphosphate, run-of-pile, bulk, f.o.b. cars, boat, Balto..ton. 9.50 - —
guaranteed 16%, bulk, same basis..ton.10.00 - —
20%, bulk, same basis....ton.12.00 - —
triple, bulk, f.o.b. cars, Balto., spot..unit-ton. .80 - —

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Talc, dom., Calif., 1, c.l.....ton.20.00 - —
2, c.l.....ton.17.00 - —
N.Y., fibrous, 93-94%, 325 mesh, c.l..ton.14.00 -16.00
l.c.l. .....ton.16.00 -18.00
99-99½%, 325 mesh, c.l.... ton.15.25 -17.25
l.c.l. .....ton.17.25 -19.25
96-98%, 325 mesh, c.l...ton.15.00 -17.00
l.c.l. .....ton 17.00 -19.00
**99.95%, 325 mesh, c.l...ton.17.00 -19.00**
coarse, off-color, c.l ....ton.11.00 -13.00
Aluminum, flake-type, grd. c.l..ton.21.00 - —
l.c.l. .....ton.24.50 - —
Pennsylvania, c.l.....ton.11.00 -13.50
l.c.l. .....ton.12.00 -14.50
Vermont, c.l.....ton.14.00 - —
l.c.l. .....ton.15.00 - —
Talc, imp., Canadian, c.l., dlvd. N. Y..ton.24.00 -30.00
French .....ton. No prices
Italian .....ton. No price
**Talc, domestic, is quoted at the mills in bag packing.**
Tallow, extra, loose.....lb. .08¾- —
special, loose.....lb. .08¾- —
**stiphonated, 25% (34% fat), dms., c.l..lb. .05 - —**
l.c.l. .....lb. .06 - —
**50% (43% fat), dms., c.l..lb. .06½- —**
l.c.l. .....lb. .07⅛- —
**50% (43% fat), dms., c.l..lb. .07 - —**
l.c.l. .....lb. .08 - —
Tamarind, No. 1, bbls.....lb. .06 - .07
kegs .....lb. 6.00 - 8.00
Tankage, fertilizer, animal, dom., grd., 9% ammon., 10% b.p.l., bulk, basis N.Y. unit-ton. 4.00 & .10
10-11% ammon., 15% b.p.l., bulk, basis Chi..unit-ton. 3.75 & .10
feeding, unground, 9-11% ammon., 15-20% b.p.l., bulk, basis N.Y. unit-ton. 4.75 & .10
high-grade, bulk, Chicago, unit-ton. 5.25 & .10
import, S. Amer., 10-12% ammon., 13% b.p.l., bulk, c.i.f. ports..unit-ton. 4.75 & .10
**Tansy leaves, bls.....lb. .22 - .23**
Tapioca flour, bgs.....lb. .04½- .06½
Tar acid oil,[7] 15%, dms., c.l., works..gal. .27½- —
l.c.l., same basis.....gal. .29½- —
25%, dms., c.l., works.....gal. .31½- —
l.c.l., same basis.....gal. .33½- —
Tar, pine, retort, dms., dlvd. E. cities..gal. .29 - —
ports .....gal. .31 - —
tanks, dlvd. E. cities....gal. .22 - —
Tarragon herb, bgs.....lb. 1.50 - 1.85
Tartar emetic, tech., fine, gran or powd., bbls., kgs., 5 or more..lb. .47¾- —
less than 5.....lb. .48 - —
dms. .....lb. .48½- .51
USP, powd., bbls.....lb. .52¾- .53
**Terpinyl acetate, cns.....lb. .74 - —**
**dms. .....lb. .71 - —**
Terpin hydrate, bbls.....lb. .60 - .65
**Terpineol, CP, cns.....lb. .36 - —**
**dms. .....lb. .33 - —**
alpha, denat. grade, dms., c.l., wks., net wgt..lb. .17 - —
Terra alba (see Gypsum).
Tetrachloroethane, dms., wks..lb. .08 - 08½
Tetrachloroethylene, CP, dms..lb. .21½- —
tech. (see Perchloroethylene).
Tetralin, dms.....lb. .19 - —
Tetrasodium pyrophosphate (see soda pyrosphosphate).
Thallium sulphate, 99% pure, bots., works..lb. 5.00 - 7.00
Theobromine .....lb. 2.40 - 2.65
Sodiosalicylate, dms.....lb. No prices
Thiamine hydrochloride, bots., cns., gram. .65 - .90
Thiocarbanilide, dms.....lb. .24 - —
Thio Urea, C.P., dms.....lb. .55 - .65
Thorium, nitrate, cs, works...lb. 2.00 - —
Thyme, French, bls.....lb. .89 - .94
Morocco, bls.....lb. .21 - .21½
Spanish, bls.....lb. .22 - .23
Thymol, cns., 25 lbs.....lb. 3.00 Nom.
Iodide, kgs., 50 lbs.....lb. 3.40 - —
25 lbs.....lb. 3.50 - —
Timbo root (see cube root).

Tin chloride (ous), anhyd.....lb. .48 - .48½
Crystals, bbls., bgs.....lb. .39 - .39½
Metal,[1,2] Straits.....lb. .52 - —
Oxide, bbls.....lb. .55 - —
Tetrachloride, anhyd., bbls..lb. No price
Titanium, dioxide, bgs., c.l., (20 tons)..lb. .14½- —
l.c.l., 5 tons, single delivery, lb. .14¾- —
1,000-9,999 lbs.....lb. .15 - —
50-999 lbs.....lb. .15¼- —
bbls., c.l. (20 tons).....lb. .14¾- —
l.c.l., 5 tons, single delivery, lb. .15 - —
1,000-9,999 lbs.....lb. .15¼- —
50-999 lbs.....lb. .15½- —
non-chalking, bgs., c.l. (20 tons)—lb. .16½- —
l.c.l., 5 tons, single delivery, lb. .16¾- —
1,000-9,999 lbs.....lb. .17 - —
50-999 lbs.....lb. .17¼- —
chalk-resistant, bgs., c.l. (20 tons)..lb. .15 - —
l.c.l., 5 tons, single delivery, lb. .15¼- —
1,000-9,999 lbs.....lb. .15¾- —
50-999 lbs.....lb. .15¾- —
bbls., c.l. (20 tons).....lb. .15 - —
l.c.l., 5 tons, single delivery, lb. .15¼- —
1,000-9,999 lbs.....lb. .15¾- —
50-999 lbs.....lb. .16 - —
barium or magnesium base, bgs., c.l. 120 tons)..lb. .05¾- —
l.c.l. .....lb. .06 - —
bbls., c.l. (20 tons).....lb. .06 - —
l.c.l. .....lb. .06¼- —
calcium base, bgs., c.l. (20 tons). lb. .05½- —
calcium-rutile base, bgs., c.l. (20 tons)..lb. .05½- —
l.c.l. .....lb. .05¾- —
bbls., c.l. (20 tons).....lb. .05¾- —
l.c.l. .....lb. .06 - —

**Carload prices are f.o.b. factories with actual freight paid. Less than carload prices are f.o.b. factories or ex warehouse with actual freight or trucking paid, except on the Pacific Coast, where they are f.o.b. warehouses. Pacific Coast prices are ¼c. per lb. higher than the above.**

**Toluidin base, distilled, kgs.....lb. .96 - —**
Tolu, balsam, cns.....lb. .95 - 1.00
**Toluidin, mixed, dms.....lb. .38 - —**
Toluol,[2,3] (toulene), 2° indus., dms., returnable..gal. .33 - —
**tanks, E. of Omaha, frt. alld. gal. .28 - —**
**W. Coast, f.o.b. Minnequa, Colo..gal. .28 - —**
1° nitration,[4] dms., returnable, gal. .34½- —
**tanks, E. of Omaha, frt. alld. gal. .29½- —**
**W. Coast, f.o.b. Minnequa, Colo..gal. .29½- —**
Tonga vine, F, bls.....lb. .65 - .70
root, bls.....lb. .65 - .70
Tonka beans, Angostura, cks..lb. 2.40 - 2.50
Brazilian, Surinam, cs.....lb. .70 - .85
**Triacetin, dms.....lb. .38 - —**
**Trimyl borate, dms., l.c.l., works. lb. .33 - —**
**Triamylamine, l.c.l., works....lb. .90 - —**
**Tributylamine, l.c.l., dms., works. lb. .70 - —**
**Tributyl citrate, ton lots, 475-lb. dms..lb. .24 - —**
**smaller lots.....lb. .32 - —**
**Phosphate, dms., l.c.l., dlvd..lb. .47 - —**
**cns., works.....lb. .51 - —**
**Trichlorobenzene, dms., c.l., frt. alld..lb. .08 - —**
**l.c.l., same basis.....lb. .08½- —**
**tanks .....lb. .07½- —**
Trichloroethylene,[3] dms., c.l., wks., frt. alld., Zone 1..lb. .08 - —
**l.c.l., same basis.....lb. .08½- —**
**Zone 2, dms., c.l., works, frt. alld..lb. .08½- —**
**l.c.l., same basis.....lb. .09 - —**
Zone 3, c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
**Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —**
**l.c.l., same basis.....lb. .09½- —**

**All prices on trichlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following States:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City, N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla. and Fla. Zone 3 includes Colo., N. M., Wyo, Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.**

Tricresyl, phosphate,[5] CP, cns., dlvd..lb. .40½- .51½
**dms., c.l., dlvd.....lb. .37½- —**
Tech., dms., c.l.....lb. .25 - —
**500 lbs., dms.....lb. .25½- —**
**Triethanolamine, dms., c.l., works. lb. .19 - —**
**l.c.l., works.....lb. .20 - —**
**tanks, works.....lb. .18 - —**
**Triethylamine, dms., l.c.l., works. lb. 1.05 - —**
**Triethyl citrate, ton lots, 500-lb. dms..lb. .24 - —**
**smaller lots.....lb. .32 - —**
**Triethyl phosphate, dms., dlvd..lb. .45 - —**
**Triethyleneglycol, dms., l.c.l., works..lb. .26 - —**
**Trimethyl phosphate, cns.....lb. .34 - .36**
**dms., dlvd.....lb. .50 - —**
**Trimethylamine, dms., c.l., dlvd. lb. .35 - —**
**l.c.l., dlvd.....lb. .90 - —**
**Triphenyl phosphate[5], dms....lb. .38 - —**
**Tripoli, air-floated, bgs., c.l., works..ton.26.00 - —**
**double grd., bgs., c.l., works. ton.16.00 - —**
**once-grd., bgs., c.l., works.t.on.14.50 - —**
**Trisodium phosphate (see Soda phosphate, tribasic).**
Tuba root (see Derris root).
**Tungsten metal powd.,[2,3] 90% dms., works..lb. 2.60 - —**
**Oxide, CP, kgs.....lb. No price**
**Chem. grade, kgs.....lb. No price**
Turmeric root, Alleppey, bgs..lb. .09 - .09¾
Madras, bgs.....lb. .08¾- .09
Turpentine, spirits, Kurd., bbls., c.l., ex dock..gal. .80½- —
l.c.l., 10 ex dock.....gal. .82½- —
5 ex dock.....gal. .84½- —
wood, dest., dist., dms., dlvd. E. ports..gal. .62 - .65
tanks, dlvd., E. cities...gal. .55 - —
steam-dist., dms., c.l., dlvd.gal. .75 - —
l.c.l., dlvd.....gal. .78 - —
tanks, dlvd.....gal. .70 - —

## U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs....lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., 20 tons, f.o.b. Belle, W. Va., Metropolitan New York, Phila., Wilmington, Del., Baltimore, Wilmington, N. C., Charleston, Savannah, Jacksonville....ton.80.00 - —
l.c.l., f.o.b. Belle, W. Va. ton.82.50 - —
5-19 tons, f.o.b. Boston, New York, Philadelphia, Wilmington, Del., Baltimore..ton.85.00 - —
less than 5 tons, f.o.b. New York, Phila..ton.90.00 - —
import, 40% N., bgs., 5 tons, f.o.b. Atl., Gulf ports or Belle, W. Va., ship..ton. No prices
smaller lots, f.o.b. N. Y. whse..ton. No prices
pure, cs.....lb. .12 - —
Urea fertilizer compound, basis 42% N., bulk, c.l., f.o.b. Belle, W. Va., or Atl., Gulf ports..ton.57.40 - —
Urea -ammonia liquor, basis, 45% N., tanks, f.o.b. Belle, W. Va., or Atl., Gulf ports, ton.121.58 - —
37% N. (insoluble), f.o.b. Belle, W. Va., or Atl., Gulf ports. ton.127.00 - —
Uva ursi leaves, bls.....lb. .18 - .20

## V

Valerian root, Belgian, bls....lb. 1.15 - 1.20
Eastern, bls.....lb. .75 - .80
Valonia, beards, bgs., f.a.s...ton. No prices
cups, bgs., f.a.s.....ton. No prices
Vanadium pentoxide, C.P., bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, to arrive, tins..lb. 9.50 -10.00
Mexican, tins.....lb.12.00 -13.00
cuts, tins.....lb.11.00 -12.00
South American, tins.....lb.12.50 Nom.
Tahiti, tins.....lb. 5.75 - 6.00
Vanillin, ex eugenol, 25-lb. tins, lb. 2.60 - —
5-lb. tins.....lb. 2.65 - —
1-lb. tins.....lb. 2.75 - —
ex guaiacol, 25-lb. tins.....lb. 2.35 - —
5-lb. tins.....lb. 2.40 - —
1-lb. tins.....lb. 2.50 - —
ex lignin, any quantity, 25-lb. tins..lb. 2.35 - —
5-lb. tins.....lb. 2.40 - —
1-lb. tins.....lb. 2.55 - —
Venice turpentine, true, cs...lb. No prices
artificial, cs.....lb. .24 - .25
Verdigris, bbls., kgs.....lb. .22 - .23
Vinyl acetate, cns., works....lb. .25 - —
dms., c.l., 30,000 lbs. gross, works..lb. .14 - —
l.c.l., works.....lb. .15 - —
5 gals, dms., works.....lb. .25 - —
**Ether, 75 c.c.....bot. 1.30 - —**
**50 c.c.....bot. .73½- —**
**25 c.c.....bot. .45½- —**
Vitamin B, (see Thiamine hydrochloride).
$B_2$ (see Riboflavin).
C (see Acid, ascorbic).
D (see Oils, codliver, halibut liver).
E (see Alpha Tocopheral).
G (see Riboflavin).
P-P (see Acid, nicotinic; Acid, nicotinic, amide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see petroleum naphtha, v.m.p.).

## W

Wahoo bark, bls.....lb. .45 - .48
tree .....lb. .19 - .22
Wattle bark, bgs., f.a.s.....ton.41.00 -43.00
Extract, solid, bgs.....lb. .0460-.0447½
liquid, tanks.....lb. .05 - —
bbls. .....lb. .05¾- —
Wax, amorphous, group 3, at refineries: 160-165, amber. lb. .15½- —
black .....lb. .14 - —
white .....lb. .26 - —
180-185, amber.....lb. .17½- —
black .....lb. .16 - —
white .....lb. .20 - —
Bayberry, bgs.....lb. .18 - .20
Bees, white, bleach, slabs, cs. lb. .56 - —
cake, cs.....lb. .57 - —
discs, cs.....lb. .58 - —
yellow, crude, Africa.....lb. .46 - .47
Brazil, bgs.....lb. .50 - .51
refd., slabs, cs., lbs.....lb. .51 - .52
Candelilla, bgs., 1 ton.....lb. .33 - .35
jobbing lots.....lb. .34 - .36
Carnauba, No. 3, chalky, bgs., 1 ton..lb. .76 - .77
5 bgs.....lb. .76½- .77½
1 bg.....lb. .77 - .78
N. C., 3, bgs., 1 ton.....lb. .77 - .78
5 bgs.....lb. .77½- .78½
1 bg.....lb. .78 - .79
refined, bgs.....lb. .84 - .85
yellow, No. 1, bgs., ton....lb. .86 - .87
5 bgs.....lb. .86½- .87½
1 bg.....lb. .87 - .88
No. 2, bgs.....lb. .84 - .85
Ceresin, dom., 138°, 140° m.p., bgs., 1 ton..lb. .13½- .14
jobbing lots.....lb. .14½- .15
150°-160° m.p., bgs., 1 ton..lb. .15½- .16
jobbing lots.....lb. .16½- .17
160° m.p., bgs., 1 ton.....lb. .16½- .17
jobbing lots.....lb. .17½- .18
Japan, cs.....lb. .30 - .31
Montan, bgs.....lb. .45 - .46
Ouricury, refined, bgs.....lb. .58 - .59
Ozokerite, hard, green, congeas, p. 66°-68° C., bgs..lb. No stocks
70°-72° C., bgs.....lb. No stocks
74°-76° C., bgs.....lb. No stocks
Ozokerite, snow-white, pure, 76°-78° C., bgs..lb. No stocks
yellow, natural, 76°-78° C., bgs..lb. No stocks
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .24 - .26
cakes, cs.....lb. .25 - .26
White lead (see Lead, white).
White pine bark, rossed, bls..lb. .07 - .08
White precipitate, powd., dms., 50 lbs. or more..lb. 2.34 - —
Whiting, chalk, com'l., dry-grd., pap. bgs., c.l., works, ton.18.00 -22.00
l.c.l., works.....ton.20.00 -24.00
wet-grd. bip. bgs., c.l., works.....ton.21.00 -23.00
l.c.l., works.....ton.22.00 -27.00
Whiting, chalk, com'l, gilders, bolted, pap. bgs., c.l., works. ton.20.00 -24.00
l.c.l., works.....ton.21.00 -24.00
extra bolted, pap. bgs., c.l., works..ton.22.00 -26.00
l.c.l., works.....ton.23.00 -27.00
Paris white, pap. bgs., c.l., works..ton.24.00 -28.00
l.c.l., works.....ton.25.00 -29.00
Limestone, air-floated, 99¾%, 250 mesh, pap. bgs., c.l., works..ton.10.10 - —
200 mesh, pap. bgs., c.l., works..ton. 9.50 - —
90% 200 mesh, pap. bgs., c.l., works..ton. 7.00 - —
gilders, pap. bgs., c.l., works, ton.11.50 -13.00
l.c.l., works.....ton.12.50 -16.00
putty grade, water-floated, bgs., c.l., works..ton.12.00 -13.00
l.c.l., works.....ton.13.00 -16.00
precipitated, bgs., c.l., works, ton.14.00 -15.00
l.c.l., works.....ton.18.00 -25.00
Wild cherry bark, thick, natural, bls..lb. .07 - .08
rossed, bls.....lb. .05 - .06
thin, natural, bls.....lb. .07½- .09
rossed, green, bls.....lb. .13 - .15
Wild indigo root, bls.....lb. .13 - .14
Witch-hazel extract, dist., NF, tax extra, bbls..gal. .44 - .45
leaves, bls.....lb. .07 - .09
Witherite (see Barium carbonate, natural).
Woodflour, dom., 60 mesh, bgs., c.l., f.o.b. N.Y..ton.24.00 -25.00
80 mesh, same basis.....ton.26.00 -28.00
100 mesh, same basis.....ton.30.00 -32.00
import, 70 mesh, bgs., ex dock..ton. No prices
80 mesh, bgs., ex dock..ton. No prices
100 mesh, bgs., ex dock..ton. No prices
120 mesh, bgs., ex dock..ton. No prices
Wormseed, American, bgs.....lb. .07 - .08
Levant, bgs.....lb. 4.50 - 5.00
Wormwood, bls.....lb. .48 - .50

## X

Xylol[3] (xylene), indus., dms., returnable, works..gal. .32 - —
**tanks, E. of Omaha, frt. alld., gal. .27 - —**
**tanks, W. of Coast, f.o.b. Minnequa, Colo..gal. .27 - —**
10°, dms., returnable, works, gal. .35 - —
**tanks, E. of Omaha, frt. alld., gal. .30 - —**
5°, dms., returnable, works..gal. .30 - —
**tanks, E. of Omaha, frt. alld., gal. .40 - —**
3°, dms., returnable, works..gal. .49 - —
**tanks, E. of Omaha, frt. alld., gal. .47 - —**
Xylidin, mixed, dms.....lb. .35 - .36

## Y

Yara yara, cryst., cns.....lb. 1.80 - 1.85
Yellow,[3] arsenic sulphide, dom., bbls., f.o.b. New York..lb. .52 - .55
bottles, same basis.....lb. .60 - .64
imp., bbls., same basis.....lb. .20 Nom.
Benzidine, bbls., dlvd.....lb. 1.35 - 2.25
Cadmium, CP, import, bxs...lb. 1.35 - 1.40
lithopone, all shades, bbls., 1 ton, works, frt. alld..lb. .55 - —
smaller lots, same basis.lb. .60 - —
pkgs., ton lots, same basis, lb. .60 - —
smaller lots, same basis.lb. .65 - —
lb. .65 - —
Sulphide, orange, cases, works, lb. 1.10 Nom.
Chrome, CP, bbls., dlvd. No. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .16 - —
Chrome yellow, CP prices are ¼c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex., (Dallas, 1¼c.; Ft. Worth, 1½c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalised with Chicago.
Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis chrome..lb. 1.37 - —
primrose shade, bbls., same basis chrome..lb. 1.75 - —
Mercury oxide, tech., bbls., 1,000 lbs..lb. 2.37 - —
smaller lots.....lb. 2.60 - —
Ocher, Amer., golden bbls., works..lb. .04½- .06¼
yellow, bbls., works....lb. .02 - .02¼
French type, bbls., c.l.....lb. .0345- —
l.c.l. .....lb. .0365- —
French, all shades, cks., c.l., ex dock, Balto., Boston, N. Orleans for import..lb. .02475 Nom.
New York (f.o.b.)...lb. .02¾ Nom.
Philadelphia, for import..lb. .02¾ Nom.
San Pedro, San Francisco..lb. .0290 Nom.
cks., l.c.l., ex dock, Balto, Boston, N. Orleans..lb. .02575 Nom.
New York.....lb. .02¾ Nom.
Phila., for import...lb. .02¾ Nom.
Portland, Seattle....lb. .03½ Nom.
San Pedro, S. Francisco..lb. .03 Nom.
ex whse., Balto., Boston, N. Orleans..lb. .02725 Nom.
Indianapolis, Kansas City, Milwaukee, St. Louis..lb. .03¾ Nom.
New York.....lb. .03 Nom.
Pittsburgh .....lb. .03¼ Nom.
Portland, Seattle...lb. .03¾ Nom.
San Pedro, San Francisco..lb. .03¼ Nom.
f.o.b. N.Y., from dock, lb. .02¾ Nom.
from whse.....lb. .03¼ Nom.
Oxide, nat., bbls., c.l., f.o.b. Bethlehem, Easton, N.Y...lb. .04½- —
l.c.l., same basis.....lb. .05 - —
synth., bbls., c.l., works...lb. .07 - —
l.c.l., same basis.....lb. .07½- —
Persian orange (see O).
Zinc, bbls., same basis, chrome CF, contracts..lb. .17½- —
open order.....lb. .17½- —
Navy specifications type, contracts..lb. .17½- —
open order.....lb. .17½- —
Yellow dock root, dom., bls....lb. .13 - .18
Yellow root (xanthoriza), bls..lb. .11 - .13
Yerba santa leaves, bls.....lb. .10 - .11
Yohimbine hydrochloride, viz...oz. 3.00 - 5.75

## Z

Zein, bgs., 1,000 lbs. or more, works..lb. .20 - —
less than 1,000 lbs., works..lb. .25 - —



Zinc,[1,2,3] Metal (see paint market).
acetate, tech., bbls., dlvd...lb. .15 - .16
USP, bbls., 250 lbs.....lb. .27 - —
kgs., 100 lbs.....lb. .29 - —
Arsenite, bgs., c.l., dealers, E. of Rockies..lb. .12 - —
l.c.l., bgs.....lb. .12½- —
Zinc arsenite prices are on a frt. alld. basis to dest., in lots of 96 lbs. or over.
Carbonate, tech., bbls.....lb. .14 - .20
USP, precip., powd., bbls..lb. .32½- —
25-lb. dms.....lb. .37½- —
kgs. .....lb. .34½- —
Chloride, tech., fused, dms., c.l., works..100 lbs. 5.00 - —
l.c.l., works.....100 lbs. 5.35 - —
gran., dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., dms., works.100 lbs. 6.50 - —
USP, 100-lb. dms.....lb. .30 - .31
25-lb. jars.....lb. .36 - —
solut., 50%, dms., c.l., works, lb. .0315- —
l.c.l., works.....lb. .04¼- .04½
tanks, works.....lb. .0250- —
Cyanide, kgs., works.....lb. .33 - .37
Dust, bbls., c.l., dlvd.....lb. .1035- —
l.c.l., bbls., f.o.b. works...lb. .1135- —
Iodide, N. F., bots.....lb. 4.54 - —
jars .....lb. 4.40 - —
Fluoride, bbls.....lb. .20 - .25
Metal (see daily quotations in Market report.)
Oxide[2], pigment, dom., Amer. process, coml., lead free, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd.....lb. .06¾- —
bbls., c.l., dlvd.....lb. .06¾- —
l.c.l., dlvd.....lb. .07 - —
leaded, 5%, bgs., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd.....lb. .06¾- —
bbls., c.l., dlvd.....lb. .06¾- —
l.c.l., dlvd.....lb. .06¼- —
35%, bgs., c.l., dlvd....lb. .06 - —
l.c.l., dlvd.....lb. .06¼- —
bbls., c.l., dlvd.....lb. .06¼- —
l.c.l., dlvd.....lb. .06¼- —
50%, bgs., c.l., dlvd...lb. .06 - —
l.c.l., dlvd.....lb. .06¼- —
bbls., c.l., dlvd.....lb. .06¼- —
l.c.l., dlvd.....lb. .06¾- —
green seal, bgs., c.l., dlvd. lb. .06¼- —
l.c.l., dlvd.....lb. .06¼- —
bbls., c.l., dlvd....lb. .06¼- —
l.c.l., dlvd.....lb. .06¾- —
red seal, bgs., c.l., dlvd. lb. .07¾- —
l.c.l., dlvd.....lb. .06 - —
bbls., c.l., dlvd.lb. .06 - —
l.c.l., dlvd.....lb. .06¼- —
white seal, bgs., c.l., dlvd. lb. .06¾- —
l.c.l., dlvd.....lb. .09 - —
bbls., c.l., dlvd...lb. .09 - —
l.c.l., dlvd.....lb. .09½- —
imported, gold seal, cks., ex whse..lb. No price
green seal, bbls., ex whse. lb. No price
white seal, cks., ex whse..lb. No price
USP, c.l., 50-lb. bgs.....lb. .10½- —

Zinc oxide prices in l.c.l. are ¼c. higher.

Lead-free and 5% and 35% leaded zinc oxide in car lots are ½c. per lb. higher delivered Pac. Cst., and in less car lots are ½c. per lb. higher ex whse. Pac Cst.; 50% leaded is 5.6c. per lb. higher for car lots delivered Pac. Cst.

Palmitate, bbls.....lb. .32 - .33
Resinate, fused, pale, bbls..lb. .10 - —
precip., dms., dlvd.....lb. .15 - —
Stearate, tech., precip., ctns..lb. .30 - .31
USP, bbls.....lb. .30 - .31
sulphate, cryst., bgs., c.l., 100 lbs. 3.40 - —
l.c.l. .....100 lbs. 4.15 - —
bbls., c.l.....100 lbs. 3.65 - —
l.c.l. .....100 lbs. 4.40 - —
flake, bgs., c.l.....100 lbs. 3.80 - —
l.c.l. .....100 lbs. 4.55 - —
bbls., c.l.....100 lbs. 4.05 - —
l.c.l. .....100 lbs. 4.50 - —
powd., bgs., c.l.....100 lbs. 5.35 - —
100 lbs. 5.35 - —
l.c.l. .....100 lbs. 6.10 - —
bbls., c.l.....100 lbs. 6.60 - —
l.c.l. .....100 lbs. 6.35 - —
Sulphide, bgs., c.l. (20 tons), dlvd..lb. .07¾- —
l.c.l., dlvd.....lb. .08 - —
bbls., c.l., 20 bbls. (20 tons), dlvd..lb. .08 - —
l.c.l., dlvd.....lb. .08¼- —
barium, pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd.....lb. .05½- —
calcium pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd.....lb. .05½- —
magnesium pigment, bgs., c.l., dlvd..lb. .05½- —
l.c.l., dlvd.....lb. .05¾- —

Car lot prices are ½c. higher delivered Pac. Cst. and less car lot prices are ½c. higher ex whse. Pac. Cst.

Sulphocarbolate, NF, bbls., dms..lb. .24 - .29
Zinc-ammonia chloride, dms., c.l., works...100 lbs. 5.65 - —
l.c.l., works.....100 lbs. 6.70 - —
Zinc-iron oxide, pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd., except Pac. cst..lb. .05¾- —
ex whse., Pac. cst..lb. .05¾- —
Zirconium nitrate, kgs., works.lb. 3.00 - 4.00
Oxide, crude, 70-75%, gr., bbls., works..ton.75.00 -100.00
white, 95%, grd., kgs., works, lb. 1.90 - 2.00

# Synthetic Resins
## and other
# Branded Paint Materials
## (Manufacturers' List Prices)

**Note:**—The list of prices previously printed weekly under the above heading is now printed once a month. The latest printing was in the December 1 issue; the next printing will be in the January 5 issue. Changes in prices—if any—made during the past week are noted in the report on the Paint, Varnish and Lacquer Materials Market which begins on page 35.

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## Telescopic Price Ceilings

The pressure is on in Washington to have the roof raised, or if possible removed, which was put on by the Price Administrator with a view of keeping the cost of oils and fats within reach of as many as possible of the consumers who must have them. The farmers' "leaders" are yelling for a new and higher parity. The "embuttered farmers" argue by way of their spokesmen in Congress that the prices of other oils be allowed to rise to the skies, in order that they may have an advantage. One can sympathize fully with the Price Administrator in his plaint to congressional probers:—

> My job is to keep prices down. What in the name of God can I tell other people if I let one group out?

Who suggests that the price of cottonseed be pinned down as a means of greater public benefit than the pushing up of the price of cottonseed oil? Nobody! That would be heresy in this farmer-framed nation and tantamount to political suicide because the business folk back home also vote as the grange decrees.

It was good for producers to have the ceiling raised on prices of acetone, butyl alcohol, and ethyl alcohol. But, it was not good for consumers of these materials. The reason for the jacking up of the ceiling was the same one that is being adduced in the effort to get a higher level for cottonseed oil prices—the cost of raw materials. It is wise, and it should be insisted, that Congress strike at causes to correct effects.

Boosting the cost of the finished product to the ultimate consumer is the wrong way to handle the threat of price inflation. The costs of the article should be kept down by ceiling the prices of its raw materials. The cottonseed oil ceiling is calculated on a 150 percent parity cost of cottonseed. That is plainly adding bigger puffs to inflating of prices. The Price Administrator knows this; but even he is not in favor of ceiling all prices and thus effectively sealing all inlets by which hot air can get into the price balloon, which is tugging hard with stratospheric ambitions.

## Apportioning Defense

It is a desirable thing which the National Paint, Varnish and Lacquer Association attempts — to have the defense contracts of the larger companies in the industry shared among the smaller. Its necessity will depend on events: not from the point of view of the small paint manufacturers, but from that of the national welfare. The prime, the sole purpose of the men, money, and materials which constitute the industry of the United States is to supply the nation with an adequately effective machine for the assurance of victory.

Because of the relative simplicity and uniformity of the processes of manufacturing paints and other protective coatings, sharing a big production job among a number of plants does not offer much difficulty. Certainly this sort of sharing the work is far simpler than the task of a small business in getting into an entirely new line of defense production. But, the easy way is not the way for today, and it must be expected that all industry in the United States will be called upon to face the same problem and program of consolidation and readjustment that was just a bit too long delayed in Great Britain for that nation's early good.

Today's war program aims at making one plant in a given line of production do the work that three plants did before, and do it better. It is no longer true or desirable that, as the Undersecretary of War has said of the past, the industrial view be that "we could arm ourselves in our spare time by utilizing our idle capacity and idle labor and leaving the level of civilian activity untouched". Nor is it true or desirable that the numerical level of plant activity in a given line of production is best left untouched. Consolidation and centralization must provide plants which can be adjusted to needs of other production for victory.

Spreading defense business unnecessarily and often inefficiently among numerous small organizations should not be countenanced if the only reason is to keep concerns at their customary work when their men and materials can be far better utilized for other purposes. It is far better that a particular business be temporarily suspended than that the nation fall for lack of prime essentials. Any business can be revived if the nation survives.

BUY BONDS FOR VICTORY

## Expressing Labor Views

Insofar as it affects the position of an employer under the Wagner labor law, there is "more cheer than chow" in the decision of the Supreme Court of the United States that the labor law does not prohibit an employer from expressing his views on labor conditions or problems. In the first place, it must be recognized that the supreme court reinstated an order by the National Labor Relations Board which a circuit court had vacated. Furthermore, the full significance of the apparently ameliorative dictum has been missed by most commentators, who have found it conducive to rejoicing.

Here are the words of the supreme court:—

> Neither the act nor the board's order here enjoins the employer from expressing its view on labor policies, nor is the penalty imposed upon it because of any utterances which it has made.

That dictum makes it perfectly clear that the supreme court was of the opinion that the right of freedom of speech, which the employer pleaded as defense, did not enter into the merits of the case; although it may have been contributory in the reasoning of the labor board.

Freedom of speech is a much misunderstood right. In spite of any popular interpretation that may be given to the relevant constitutional amendment, that right does not legalize libel or slander—or even profanity or obscenity under certain conditions. And as Mr. Justice Holmes is reputed to have said: "Freedom of speech does not give one the right to yell 'Fire!' in a crowded theater." An employer can talk himself into violation of the labor law's proscription of intimidation and coercion. On the other hand, it did not require the supreme court's dictum above to exempt from that act the honest expression of labor views by an employer, as long as his purpose in doing so is not to effect a violation of the act.

In the case at bar the sanctions of the labor act, the supreme court said, were "imposed not in punishment of the employer but for the protection of the employees". The employer, however, is not "out of range". It is not the dentist's intention to hurt the patient when he drills into a live nerve.

The reasoning of the labor board in the case at bar was ambiguous and doubtful in spots; it did not definitely appraise the various items of evidence. So, the supreme court ordered a redetermination of the issues. If the board, with greater clarity, issues the same order, it is almost without doubt that the supreme court, will uphold it. The duty of finding facts rests with the board conclusively. The courts are statutorily bound to respect such administrative findings — and the conclusion hereinbefore quoted with reference to freedom of speech indicates the minor position of that defense.

BUY BONDS FOR VICTORY

## Look Southward, Trader

Some pretty good economic knowledge and seeing and thinking ability went into the composing of the national agency vested with the duty, or task, or coordinating cultural and commercial relations among the nations of the Western Hemisphere. Some pretty good work has been done in the direction of that agency's objectives. The results, in spite of a propitious atmosphere, and financial "fertilizing," have not been what seemingly they might be. The habits of business, in large part absorbed by some governments, have been in the way.

The United States has need of substantially larger supplies of drying oils—there is an informative article on a new angle of this on page 3—and Argentina has a burdensome surplus of flaxseed—held at governmentally fixed export prices. It does not help matters that exporting interests in this country argue loudly and unneighborly that there should be no price ceilings in export selling.

Latin America is full of natural materials which the United States needs. It is full also of needs for many United States goods even though Germany, Italy and Japan have been and are building stockpiles there. Exploitation habits and exploitation fears on both sides, with consequent profiteering, antipathies, and antagonisms, remain to be eliminated by some better, wider coordination of the coordinating efforts. Trade with the Far East is going to be constricted for some time.

# VITAMINS AND DEFENSE

IN all wars since history began disease has been the cause of more casualties, both military and civilian, than the weapons of the enemy. During the last World War it began to be recognized that some of these diseases, such as scurvy, were caused by a definite deficiency of some essential ingredient in the diet while others probably spread because of lowered resistance of the population due to this and other dietary lacks. Because of their relationship to life, these essentials were termed vitamins. Since practically nothing was known about them at the time, little could be done toward correcting these deficiencies.

Since then science has made tremendous strides in the chemistry of vitamins. The structure of most of those isolated has been determined and methods for synthesizing many of them developed.

The nations of the world have not been slow to recognize the importance of the vitamins. In her rearmament program Germany included factories for their production along with those for manufacturing guns, explosives and other munitions of war. One important ingredient in the emergency ration of the German parachute troops has been tablets of synthetic Ascorbic Acid (vitamin C). Our own Government has also recognized the importance of this vitamin and has included a product containing synthetic Ascorbic Acid in the ration of those now training for defense of our nation both on land and sea.

The United States and the British Empire have also included the maintenance of civilian health and morale in their defense plans. Enriched flours and breads, to which a number of the vitamins together with certain minerals have been added, have received official sanction. This development has been hampered by an insufficient supply of one of the vitamin ingredients — Riboflavin (vitamin $B_2$).

Chas. Pfizer & Co., Inc. have been glad to assist in the Defense Program. We have been one of the largest producers of Ascorbic Acid (vitamin C) for several years. There has been a continual increase in our production of this synthetic vitamin and plans are now in the process of consummation which will still further enlarge our productive facilities.

After a research program of several years, the production of Riboflavin (vitamin $B_2$) was started by our Company in 1940. At the present time we are bending every effort toward a great increase in the size of our productive facilities in order to assist in supplying the large quantities of this essential vitamin which are needed.

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# Heavy Chemicals

**Holiday and Year End Influences Have Only Slight Affect —Chlorine Under Direct Allocation After February 1 —OPM to Exercise Stricter Priority Control**

The holiday and year end influences had only a slight effect on the market for heavy chemicals last week. The demand from civilian channels slackened. However, this was offset to a large extent by heavier demand for defense purposes. The OPM took control of essential civilian as well as wartime production of industry in an amendment to priorities regulation order No. 1 directing all orders bearing priority ratings, including those with the B ratings accorded to essential civilian products, must be accepted by producers in preference to an unrated order.

All chlorine produced in the United States will be subject to direct allocation after February 1, and deliveries after that time can only be made with specific authorization from the director of priorities. Other control orders occurred in vanadium, which was placed under a complete allocations system by director of priorities. The tungsten allocation order was extended to June 30, 1942. Under allocation order for burlap, supplies for chemical uses will be permitted, but in greatly reduced quantities.

Paper production, as a percentage of six-day capacity, was 107 percent in week ended December 20, according to the American Paper and Pulp Association. This compares with 105.7 percent in the previous week, and 88.5 percent a year ago.

Alums.—Shipments moved steadily, while a firm price tone characterized the market.

Alumina Sulphate.—Commercial and iron-free well taken. Prices display firmness.

Ammonia, Anhydrous.—Market continued tight under heavy defense buying. Prices rule firm.

Ammonia, Aqua.—Available offerings absorbed, and market in firm position.

Ammonia Bicarbonate.—Shipments steady against contracts. Prices well sustained.

Ammonia Bifluoride.—Spot offerings limited. Prices unchanged and firm.

Ammonia Nitrate.—Defense needs heavy, market held firm.

Ammonia Silicofluoride.—Material scarce, and spot offerings negligible. Prices nominal.

### Price Changes

**Advanced**

Lime, chemical, 50c per ton at Berkeley, W. Va.; Bellefonte and York, Pa.

**Reduced**

None

### Comparative Values

Index numbers compiled from twenty-five typical chemicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 168.8 | 168.8 | 168.5 | 157.6 |

Index numbers compiled from twenty typical acids on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 115.4 | 115.4 | 115.4 | 101.6 |

Market news that may have developed after this report was sent to press will be found on page 4.

### *Soda Silicate*

Soda silicate is commonly known as water glass or soluble glass and appears in various strengths and forms. The principal uses are in the paper industry for the manufacture of corrugated, solid fiber board and wallboard, for coating paper board, sealing fiber containers and for sizing paper. Its detergent properties account for its extensive use in combination with soap and separately as a soap builder.

Domestic production in the United States normally has been sufficient to provide for our own needs and allow for a wide distribution for export. Production in 1939, according to the latest census figures, totaled 657,373 tons of liquid and 46,012 tons of solid, which includes meta, ortho and sesqui. This compared with 600,979 and 6,601 tons, respectively, in the 1937 comparative period.

Exports during the first eight months of 1941 amounted to 5,678 tons, compared with 5,610 tons during the like period a year ago. Exports have been spread over a number of countries, but more than 40 percent of the total is shipped to Canada. Cuba is another large market, while nearly all countries in the Western Hemisphere purchase some.

The market lacked any price movement over a long period of time. Since the outbreak of the present war prices have remained unchanged, with the 40-degree material 80c. per 100 pounds in car lots, and the 52-degree $1.40 per 100 pounds.

Ammonia Sulphocyanide.—Good inquiry for domestic grades, with supplies adequate. Prices firm.

Ammoniac, Sal.—Shipments moved steadily, while a firm tone governed the dealings.

Antimony Oxide.—Business confined to regular channels for normal requirements. Prices stabilized at current levels.

Arsenic.—Situation continued tight. Pricewise a firm tone predominated.

Barium Salts.—Demand continued steady for barium derivatives. Prices firm for carbonate, chloride hydrate and nitrate.

Bleaching Powder.—Prices stabilized under agreement at the levels established December 15. Sellers continued under pressure to meet all inquiries for defense and civilian needs.

Calcium Choride.—A good volume of business continued in evidence. Prices lacked change.

Carbon Tetrachloride.—Deliveries continued under full priority control. Situation remains tight, and prices were firm.

Chlorine.—Material placed under direct allocation after February 1, 1942. Defense needs broad, and supplies short. Prices unchanged and firm.

Cobalt Oxide.—Shipments under allocation. No change was disclosed in the prices.

Copper Salts.—Restrictions on basic metal continued to reflect in the market for various copper derivatives. Prices held firm.

Copper Sulphate.—Producers continue under pressure to keep pace with domestic and export demand. Prices failed to undergo any change.

Fluorspar.—Prices very firm, and market in tight position.

Glauber's Salt.—Shipments moved steadily against contracts. Prices without change.

Lead Acetate.—Offerings continued limited, and prices were firm.

Lime.—Prices advanced 50c. per ton

**Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7**

at Bellefonte, and York, Pa., making lump, $7.50, and hydrated $9 per ton. Berkley, W. Va., up 50c. at $7.50 and $8.50 per ton, respectively. Other prices remain firm.

Manganese Dioxide.—Prices remain firm. Shipments moved steadily against contracts.

Manganese Sulphate.—Anhydrous in short supply. Prices nominal.

Nickel Salts.—Domestic consumers received supplies to take care of regular needs. Prices rule firm.

Phosphorus. — Supplies tight. A firm price tone governed the market.

Potash Carbonate. — Good movement against contracts. Prices display firmness.

Potash, Caustic. — Business steady. Prices held the same and tone was very firm.

Potash Chlorate. — Defense and civilian needs take available domestic supplies. Prices firm.

Potash Permanganate. — Shipments moved against contracts steadily to regular consuming channels. Price-wise a firm tone prevailed.

Saltcake.—Shipments moving direct to consumers, and market continued firm.

Saltpeter.—Price trend upward, reflecting raw material costs. Demand steady.

Soda Acetate. — Market position tight, and inquiries steady. Prices firm.

Soda Ash.—Market continued firm, and demand active.

Soda Bicarbonate.—Shipments moderately active. Prices unchanged and firm.

Soda Bifluoride. — Spot offerings limited. Prices held firm.

Soda, Caustic.—Withdrawals heavy against contracts, and market firm.

Soda Chlorate.—Supplies tight, and offerings restricted. Prices without change.

Soda Cyanide.—Business active. No change disclosed in the prices.

Soda Fluoride. — Defense and civilian needs absorb available offerings. Prices firm.

Soda Hydrosulphite. — Purchases steady, with supplies tight. Prices rule firm.

Soda Metasilicate.—Consumers made replacements steadily. No change in the prices.

Soda Nitrite. — Inquiries and shipments steady. Firmness characterized the market.

Soda Phosphate. — Shipments held to regular consumers for normal needs. Prices firm.

Soda Silicofluoride.—Spot offerings light. Prices remain nominal.

Soda Sulphide. — Withdrawals steady. Prices lacked change, and tone firm.

Strontium Nitrate.—Active inquiry and market retained its firmness.

Sulphur, Refined. — All grades moved in good volume to keep market in firm position.

Zinc Chloride.—Shipments moved against contracts steadily; sellers not accepting any new business. Prices were firm.

## Acids

An active interest prevailed in the market for mineral acids last week. The holiday influences had very little effect on the market as civilian and defense needs were heavy. Acetic continued in short supply. Chromic business was usually allocated. The situation in formic was tight. Offerings of gallic were limited. Muriatic and nitric were in active demand. Oxalic remained scarce, while little improvement occurred in the supplies of phosphoric acid. Shipments of sulphuric were heavy against contracts.

Acetic.—Market in short supply. Prices firm at ceiling levels.

Battery.—Shipments steady. Prices failed to change and tone was firm.

Chlorosulphonic.—Defense requirements take large portion of output.

Chromic.—Business on allocated basis and prices underwent no alteration.

Formic.—Market tight, and prices held firm at previous levels.

Gallic. — Offerings usually limited. Prices firm at levels established recently.

Hydrofluoric. — Demand continued steady. No new developments occurred in the prices.

Lactic.—All grades in good demand. Prices held firm.

Mixed.—Inquiries and shipments active. Prices remain at previous levels.

—*Continued on page 28*

## *Priorities Basic Regulation Amended*

—*Continued from page 3*

tive importance of civilian uses for materials after war requirements have been met. Treatment which must be given to defense orders is clarified by a new provision which assigns a priority rating of A-10 to all defense orders not otherwise rated. This change is intended to eliminate any confusion which might arise as to the handling of those defense orders which were previously unrated, in relation to other orders which had been specifically rated A-10, the lowest rating in the A series.

Section 944.14 of Priorities Regulation No. 1 has been revised to provide a stricter limitation of inventories. Whereas producers were previously forbidden to increase their inventories beyond the amount necessary to meet required deliveries of their products, they are now forbidden to accept delivery of materials for inventory in excess of a practicable working minimum.

This means that all inventories of any materials whatever must be reduced to a practicable working minimum, strictly construed, before they can be replenished. The prohibition applies to suppliers of materials for inventory as well as to producers who maintain inventories, and it covers non-defense as well as defense producers. An exception is made, however, for inventories of materials imported from foreign countries.

A possible loophole in the inventory restriction is closed by a provision that no material may be fabricated, processed, alloyed or otherwise altered if the producer's inventory of the material in its altered form would thereby be increased beyond a practicable working minimum, unless specific authorization is granted by the Director of Priorities.

Priorities Regulation No. 1 lays down a general framework for priorities compliance, and it may affect all types of industrial and commercial transactions. Copies of the regulation as amended may be obtained from the Priorities Division of OPM in Washington or from field representatives.

### Ungerer & Co. to Move

Ungerer & Co., essential oils and aromatic chemicals, this city, has moved its executive offices and service laboratories to 161 Sixth avenue, New York. Telephone, Walker 5-9700. The warehouse will remain at 226-228 West Twentieth street, this city.

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# Heavy Chemicals

## Acids

—*Continued from page 27*

Muriatic.—Withdrawals brisk. No change disclosed in the quotations.

Nitric.—Defense and civilian needs heavy. Prices rule firm.

Oxalic.—Offerings limited. Prices failed to change, and tone very firm.

Phosphoric. — Situation continued tight. Prices unchanged and firm.

Sulphuric.—Shipments moved at an active pace against contracts, and most sellers unable to book any new business. Contract writing underway for next year at current levels.

Baltimore, Dec. 24.—The developments of the current week were not of a character to effect any changes in the market for sulphuric acid, except perhaps, that rather less activity prevailed than has been recorded. The differences in ideas of prices that have been noted, persisted, and to name figures indicative of the market would be an arbitrary proceeding.

## Insecticides

The market for agricultural insecticides and fungicides lacked any new developments last week. Seasonal conditions continued to limit transactions in this section. Preparations were well underway for next season, and more activity was expected to take place shortly after the turn of the year. Inquiries for export were steady. Prices remained at levels established previously and the tone was firm.

Calcium Arsenate.—Seasonal conditions limited transactions. Prices underwent no revision and tone was firm.

Lead Arsenate. — Interest routine. Pricewise a firm tone prevailed.

Nicotine Sulphate. — New business light. Prices lacked change.

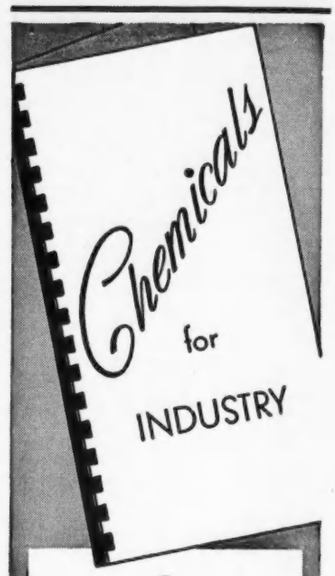
## Resale Market

Some factors reported supplies more plentiful in the resale market for heavy chemicals last week. This could be explained partially by the curtailment in certain consuming lines because of the defense program, and the difficulty in obtaining adequate shipping facilities for export. Demand was not very active and prices tended easier.

Anhydrous ammonia in cylinder was quoted at 14½c. per pound; Barium chloride, 6c. to 8c. per pound; red phosphorus, 78c. per pound; potash carbonate, 9¼c. per pound; potash, caustic, 8½c. per pound; potash chlorate, 45c. per pound, potash metabisulphite, 53c. per pound; caustic, soda, 4½c. to 5c. per pound; soda fluoride, 21c. per pound; soda hydrosulphite, 38c. per pound; soda sulphide, 6½c. to 9c. per pound; carbon tetrachloride, 21c. to 25c. per pound, and formic acid, 18c. per pound, ex carboys.

### Jungmann & Co. Moves

Jungman & Co., chemicals and raw materials, has moved to 74 Trinity place, New York. The telephone numbers for the Jungmann organization, as well as for the Becco Sales Corporation, are: — Hanover 2-0550-1 and 2.



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# Dyestuffs, Textile and Leather Chemicals

**Inquiries Continued Active for Imported Raw Materials —Tapioca Flour Firmer—Tanning Materials Active —Some Grades of Spruce Extract in Short Supply**

Business underwent a moderate slackening in the market for dyestuffs, textile and leather chemicals last week. A good inquiry continued, however, for most imported materials, but sellers would not book any forward orders in view of the general uncertainty surrounding future replacements. Prices appeared stabilized at levels established recently, the only exception occurred in tapioca flour, which advanced moderately at a result of the Far Eastern situation.

An active demand continued for most tanning materials. The difficulty in securing adequate supplies of some imported products brought further pressure on substitutes of domestic origin and a shortage appeared in such materials as oakbark and hemlock bark extracts. Some grades of spruce extract were difficult to obtain.

The European war has revived India's vegetable dye industry. As a result of the abnormal demand for khaki and other shades for army clothing. The manufacture of natural dyes from indigo, myrobalan and other dyeing materials has been undertaken.

## Chemicals

Alumina Acetate. — Offerings well taken, and market retained its firmness.

Ammonia Bichromate. — Transactions routine. Prices unchanged and firm.

Antimony Salts.—Market position tight. Prices firm at levels established recently.

Chrome Acetate.—Firm price tone governed the dealings, while business was usually restricted.

Potash Bichromate. — Shipments moved steadily against contracts. Pricewise a firm tone predominated.

Potash Prussiate. — Domestic offerings well taken, and business usually confined to regular channels for normal needs.

Soda Bichromate. — Business allocated among regular consuming channels. Prices lacked change and tone was firm.

Soda Prussiate. — Consumers made replacements steadily. Prices firm.

Sulphonated Oils.—Demand steady. Prices held the same, and the tone was firm.

### *Alumina Chloride*

Consumption of alumina chloride has been upward during the past few years, but future production will necessarily depend on obtaining adequate raw materials such as bauxite and chlorine. While no figures are available for this year, it was reported that sales of alumina chloride advanced 22 percent during 1940 over the preceding year. It finds widespread use as a catalytic agent, condensing agent in making various dyes and in the textile industry.

The latest production figures show 1940 output of liquid at 3,176 short tons; crystal and anhydrous totaled 10,790 tons. This compared with 3,145 short tons of liquid and 8,340 tons of crystal and anhydrous during the 1939 year.

No specific export figures are available for alumina chloride. The hostilities abroad has increased inquiries from other countries, principally South America, formerly supplied by Enrope. On April 15, this year, aluminum salts were placed under export control.

Prices for the crystal and solution have remained firm over a long period. No change has occurred in the schedule since the beginning of the war. Prices for the crystal, carlots, was 6c. per pound and the solution, carlots, 2¾c. per pound.

### Price Changes

**Advanced**

Tapioca flour, ½c. per lb.

**Reduced**

None

### Comparative Values

Index numbers compiled from nineteen typical dyestuffs on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 253.3 | 253.3 | 248.8 | 153.8 |

Market news that may have developed after this report was sent to press will be found on page 4.

Zinc Dust.—Business on restricted basis, while prices were well maintained at ceiling levels.

## Dyestuffs

Annatto.—Prices remain unchanged, and business routine.

Cochineal. — Call moderate. No change occurred in the prices.

Fustic.—Shipments held to necessary replacements as a rule.

Hypernic.—Some slackening in demand noted. Prices held firm.

Indigo. — Business quiet. Prices held at same levels.

Logwood.—Shipments moved fairly steady against contracts to keep market position firm.

Turmeric.—Spot offerings moderate, while prices remained firm.

## Sizing Materials

Albumen, Blood.—Supplies remain limited, and prices firm at levels in force previously.

Albumen, Egg.—Demand moderate, situation continued tight. Domestic and imported prices unchanged.

Corn Sugar.—Bookings fairly steady, and prices underwent no change.

Dextrin, Corn. — Shipments moderately active. Prices lacked change.

Dextrin, Potato. — Demand steady. Pricewise a firm tone prevailed.

Egg Yolk. — Prices held at same levels, while tone was firm. Offerings moderate.

Sago Flour.—Sellers limiting commitments to normal needs. Prices held firm.

Starch Corn.—Buying steady. No change disclosed in the prices.

Starch Potato. — Domestic production underway. Prices firm at levels established previously.

Starch, Rice — Withdrawals moderately active, and market position firm.

Starch Wheat. — Consumers made fair size replacements to keep market in satisfactory position.

Tapioca Flour.—Prices firmer, ranging from 4½c. to 6½c. per pound. Business limited to normal needs as a rule.

## Tanning Materials

Chestnut Bark.—Active inquiry. Prices firm at recently established levels..

Divi-Divi.—Good interest. No change occurred in the quotations.

Gambier.—Spot offerings light. Prices continued nominal.

Hemlock Bark.—Supplies tight, one leading seller withdrew prices for early next year.

Mangrove Bark.—Demand steady. No change developed in the prices.

Nutgalls.—Price for Chinese nominal, future replacements uncertain.

Oakbark.—Material scarce, and one factor accepting no new business for early next year.

Osage Orange.—Offerings limited, and inquiries brisk. Prices lacked change.

Quebracho.—Active interest. Prices unchanged and market firm.

Quercitron.—Shipments moderately active. Prices held the same.

Spruce Extract.—Some grades in short supply, while demand continued steady. Prices unchanged.

Wattle Bark.—A steady replacement demand appeared. Prices rule firm.

## Resale Market

Business was at a low ebb in the resale market for dyestuffs, textile and leather chemicals last week. While offerings were freer, the demand continued dull. Soda bichromate was available at 17c. per pound, while potash bichromate was quoted at 18c. per pound.

### Pa. Salt Starts Production Of Potash Soda Chlorate

Production of chlorates has been started by the Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., at a new plant in Portland, Ore. The new plant, operating with power from the Bonneville Dam, will produce both potash and soda chlorate. Leonard Beale, president of the company, in announcing the start of operations at the new plant, also said that extensions to chlorine operations in Wyandotte, Mich., and Tacoma, Wash., were being rushed to completion.

### *R. M. Neumann Marks 35 Years with N. J. Zinc*

*—Continued from page 3*

the office of cashier in 1912. Before the termination of that year, Mr. Neumann was named secretary and assistant treasurer of the Mineral Point Zinc Company with his office in Chicago. In 1918 he was named manager of Western sales for the New Jersey Zinc organization.

In 1935 Mr. Neumann returned to New York as manager of the pigment division of the New Jersey Zinc Sales Company. He was named general sales manager for the entire New Jersey Zinc organization in 1939.

Mr. Neumann, a former president of the Chicago Paint, Varnish and Lacquer Association, is now serving on the executive committee of the New York Paint, Varnish and Lacquer Association, and is a member of the American Zinc Institute.

### Peerless Color Established For Twenty-Five Years

Peerless Color Company, Plainfield, N. J., is observing its twenty-fifth anniversary. The company originally started manufacturing operation near Bound Brook, N. J., but shortly afterward moved to its present location. The Peerless company started with production of practically the whole series of thiobenzyl dyes, the chloramine yellows, the Stanley reds and thioflavine S.

About fourteen years ago, coincident with Dr. Arthur Clayton joining the company, vat dyes were added to the Peerless line and certain azo dyes were discontinued. Dr. Arthur Clayton, before joining the Peerless organization, had served for many years as chief chemist and director of L. B. Holliday & Co., dye manufacturer, Huddersfield, Eng.

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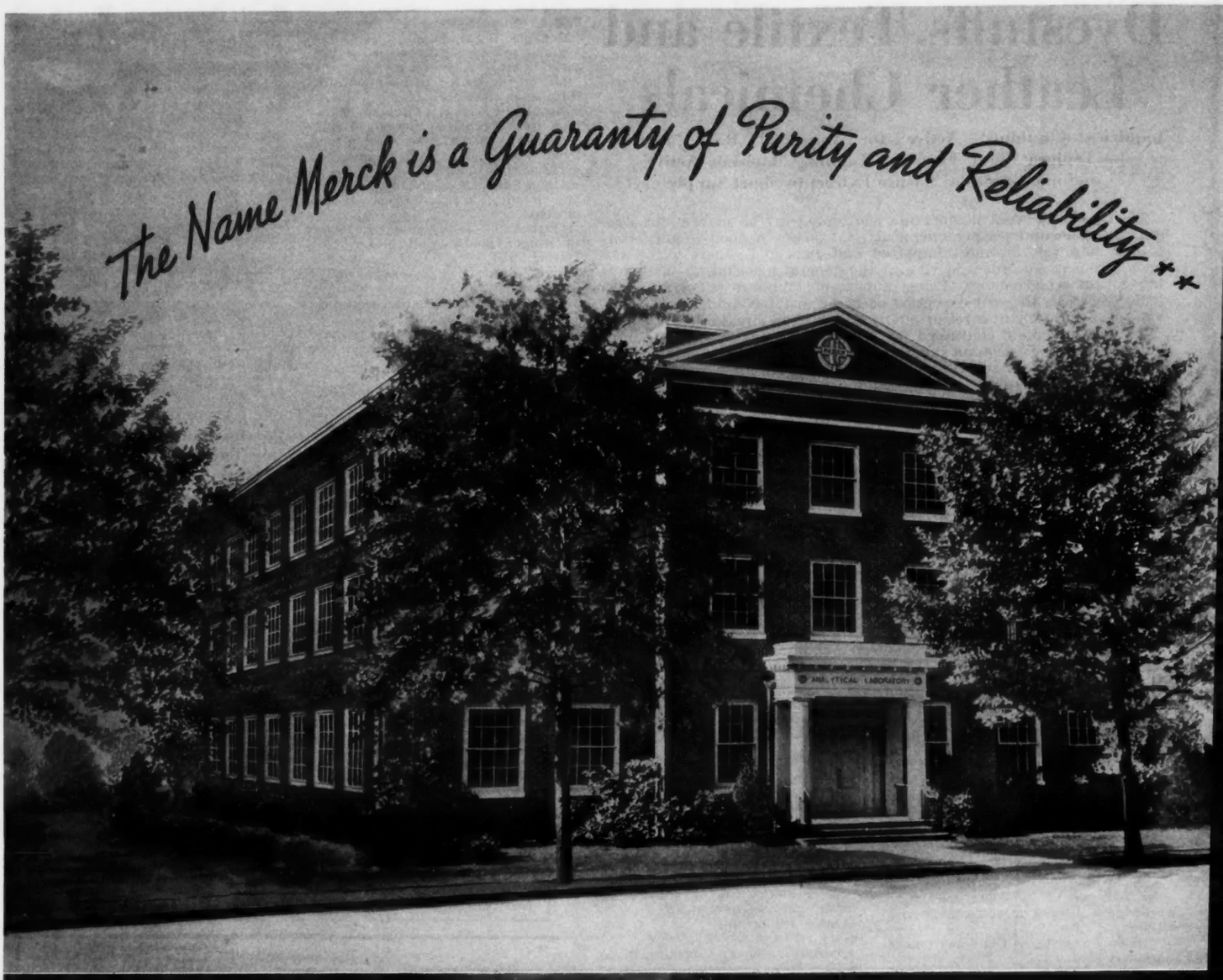
**Current prices on dyestuffs and tanstuffs are given in the alphabetical list of prices beginning on page 7**



MERCK & CO. Inc. *Manufacturing Chemists* RAHWAY, N. J.

# What MERCK Laboratory Control means to you...

For many years, pharmaceutical manufacturers have recognized the high quality of Merck Chemicals, and have demonstrated their confidence and satisfaction by continuous use of these chemicals in their own preparations. One of the important reasons for this increasing specification of Merck Chemicals in many fields is the fact that these chemicals are manufactured under rigid laboratory control.

Scores of skilled chemists and technicians, working in spacious and modern analytical laboratories, exercise a constant control over the quality of more than 1,500 drugs and chemicals bearing the Merck label. Scores of tests are necessary to meet the standards which have been established for every product—tests for the quality of raw materials—then a series of control tests throughout each step of the manufacturing process—and finally, the exacting tests of the finished product before it is ready for packaging.

And even the packages in which Merck Chemicals are distributed must undergo thorough testing, so that each and every product will reach the user in good condition and protected against the effects of light, moisture, heat or cold.

The wide range of precision, analytical, and test facilities in the Merck Analytical Laboratories includes not only chemical methods, but physical and optical procedures as well. Some of these procedures are illustrated below, and also one of the unique and highly-efficient laboratory tables, the latest in scientific design.

Because of these modern control facilities, the pharmaceutical manufacturer who uses Merck Chemicals can do so with con plete confidence in their purity and uniformity.

MERCK

FINE CHEMICALS FOR THE PROFESSIONS AND INDUSTRY SINCE 1818

New York, Philadelphia, St. Louis • *In Canada*: Merck & Co. Ltd., Montreal and Toronto

Barrett
CHEMICALS

**For your convenience The Barrett Division, Allied Chemical & Dye Corp. announces the following Coal Tar Acid prices for the first quarter 1942:**

**CRESOLS**

| | Tank Cars | Carloads Returnable Drums | Less Carloads Returnable Drums |
|---|---|---|---|
| No. 1 Meta Para—less than 2° C Boiling range.. | 12c lb. | 12¾c lb. | 13¼c lb. |
| No. 2 Meta Para 2° to 3°C Boiling range..... | 11c lb. | 11¾c lb. | 12¼c lb. |
| No. 3 Meta Para 3° to 4°C Boiling range..... | 10¼c lb. | 11c lb. | 11½c lb. |
| No. 4 Special Cresol Distilling 50% at above 198°C and completely within 4° to 8°C..... | 10c lb. | 10¾c lb. | 11¼c lb. |
| No. 5 Special Cresol distilling at least 50% below 198°C ..... | 10½c lb. | 11¼c lb | 11¾c lb. |
| No. 6 Special Cresol distilling at least 50% at 202°C and less than 90% within 8°C range... | 9½c lb. | 10¼c lb. | 10¾c lb. |
| No. 7 Cresol U.S.P..... | 10½c lb. | 11¼c lb. | 11¾c lb. |
| No. 8 Cresol distilling 50% at 202°-204°C and less than 98% at 208°C..... | 9¼c lb. | 10c lb. | 10½c lb. |
| No. 9 Ortho Cresol, 30.4°C Min. M.P..... | | 18c lb. | 18½c lb. |
| No. 10 Ortho Cresol, 29°C Min. M.P..... | | 17c lb. | 17½c lb. |

**CRESYLIC ACIDS**

| | | | |
|---|---|---|---|
| No. 1 Cresylic Acid distilling 50% at 204°-206°C.. | 75c gal. | 81c gal. | 83c gal. |
| No. 2 Cresylic Acid distilling 50% at 206°-210°C.. | 75c gal. | 81c gal. | 83c gal. |
| No. 3 Cresylic Acid distilling 50% at 210°C or higher and total distillation range of over 9°C ..... | 75c gal. | 81c gal. | 83c gal. |
| No. 4 Cresylic Acid (special blends) distilling 50% at 204°-206°C..... | 75c gal. | 81c gal. | 83c gal. |
| No. 5 Cresylic Acid (special blends) 50% at 206°-210°C ..... | 75c gal. | 81c gal. | 83c gal. |
| No. 6 Cresylic Acid (special blends) 50% at 210°C or higher and total distillation range of over 9°C ..... | 75c gal. | 81c gal. | 83c gal. |
| No. 7 Cresylic Acid distillating 50% at 210° C or higher with a total distillation range of 7° to 9°C:— | | | |
| (a) Distilling more than 75% at 215°C... | 85c gal. | 91c gal. | 93c gal |
| (b) Distilling less than 75% at 215°C... | 85c gal. | 91c gal. | 93c gal. |

**XYLENOLS**

| | | | |
|---|---|---|---|
| No. 1 Xylenols distilling completely within range of 5° to 7° C..... | 12½c lb. | 13¼c lb. | 13¾c lb. |
| No. 2 Xylenols distilling completely within 5°C, M.P. under 58°C..... | 14½c lb. | 15¼c lb. | 15¾c lb. |
| No. 3 Xylenols with M.P. of 58°C or over..... | 17½c lb. | 18¼c lb. | 18¾c lb. |

**TRICRESYLPHOSPHATE ACIDS**

| | | | |
|---|---|---|---|
| T3A ..... | 75c gal. | 81c gal. | 83c gal. |
| T4A ..... | 75c gal. | 81c gal. | 83c gal. |
| T4D ..... | 75c gal. | 81c gal. | 83c gal. |

**FLOTATION ACID**

| | | | |
|---|---|---|---|
| F1A ..... | 75c gal. | 81c gal. | 83c gal. |

F.O.B. Frankford, Philadelphia, Pa., freight equalized with Newark, N. J., Follansbee, W. Va., or Indianapolis, Ind. Drums returnable at seller's expense.
Non-returnable steel barrels 5c per gallon or ½c per lb. higher than returnable drum schedule.
Non-returnable steel barrels are supplied at returnable drum prices for west coast shipments.
None of the above standard grades of cresol and cresylic acid will contain more than 20% of phenol. For mixtures containing higher percentages of phenol, prices will be quoted on request.

**PHENOLS**

| | Tank Cars Per lb. | Returnable or destructible drums Carloads Per lb. | Less Carload Per lb. |
|---|---|---|---|
| Phenol U.S.P. 40°C..... | 11½c | 12½c | 13¼c |
| 85% Phenol—15% Water..... | | 10.63c | 11.26c |
| 92% Phenol—8% Water..... | | 11.50c | 12.19c |

Returnable drums to be returned at buyers' expense. F.O.B. Frankford, Philadelphia, Pa., freight equalized with Newark, N. J., No. Tonawanda, N. Y., Midland, Michigan, St. Louis, Mo., Indianapolis, Ind., and Follansbee, West Va.

| | Tank Cars Per lb. | Returnable or destructible drums Carloads Per lb. | Less Carload Per lb. |
|---|---|---|---|
| Technical Phenol 39°C..... | 11c | 12c | 12¾c |
| 85% Phenol—15% Water..... | | 10.20c | 10.84c |
| 92% Phenol—8% Water..... | | 11.04c | 11.73c |
| | | Returnable Drums | |
| *Technical Phenol—90-92%..... | 10c | 11c | 11¾c |
| *Technical Phenol—82-84%..... | 9¾c | 10¾c | 11½c |
| Phenol—Cresol Blends:— | | | |
| 60-79% Phenol Content..... | 9¾c | 10½c | 11c |
| 30-59% Phenol Content..... | 9⅝c | 10⅜c | 10⅞c |
| 20-29% Phenol Content..... | 9½c | 10¼c | 10¾c |

*Technical 90-92% and 82-84% Phenol sold in 200 lb. destructible drums, when shipped by motor truck only, at ¼c lb. above returnable drum prices.
Returnable drums are returned at seller's expense.
F.O.B. Frankford, Philadelphia, Pa., freight equalized with Newark, N. J., Indianapolis, Ind., and Follansbee, West Va.
Prices are subject to change without notice.
TERMS:—Net cash 30 days from date of invoice.

**THE BARRETT DIVISION**
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK

*America's leading manufacturer of coal-tar products*
**ROOFINGS • TARVIA* • CHEMICALS**

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# Coaltar Chemicals

**Revisions Occur in Creosote Oil and Crude Naphthalene Prices —Cresols and Tar Acid Oils Firmer—Cresylic Acids Renewed —Further Price Stabilization Appears in Phenol Schedule**

Contract prices for several basic materials covering the first quarter of next year were released by a leading producer last week. Adjustments occurred in the tankcar prices for creosote oil. Crude naphthalene schedule underwent a revision, as did the prices for various cresols and tar acid oils. Quotations for domestic cresylic acid were carried into the first quarter at levels in force previously. Further stabilization appeared in prices for phenol.

Despite the holiday influences, the demand continued at high levels. Defense and civilian requirements absorbed practically all the offerings. Many chemicals continued in short supply. Basic products met with an active inquiry. Demand for several intermediates exceeded available supplies. Movement of coaltar colors was steady.

No slackening occurred in the demand for phenol and other tar acids. The situation was about unchanged, as far as supplies were concerned, with available material under allocation. Toluol moved in large quantities to defense channels; xylol's position remained tight, while benzol moved in good volume.

With the defense requirements absorbing such a substantial portion of intermediates, a generally tight situation prevailed. Sellers were forced to reject a number of orders and endeavored to spread offerings as far as possible among regular consumers. Dyestuffs manufacturers in particular felt the scarcity in attempting to make replacements to meet the broader demand for colors.

### Price Changes

**Advanced**

Creosote oil, tanks, crude, 1c. per gal.
Cresols, ¼c. per lb.
Naphthalene, crude, tanks, 25c. per 100 lbs.
Tar acid oils, 2½c. per gal.

**Reduced**

None.

### Comparative Values

Index numbers compiled from twenty typical coaltar products on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| **130.1** | **129.8** | **128.5** | **126.6** |

Market news that may have developed after this report was sent to press will be found on page 4.

## Basic Products

Benzol. — Shipments steady. Contract writing underway for next year at higher levels announced preceding period.

Creosote Oil.—One producer writing contracts for first quarter at 15½c. per gallon for crude in tanks; solution tanks, .141 per gallon. Sellers well booked ahead.

Cresols.—A leading produucer accepting business for early part of 1942 as follows:—U.S.P., drums, car lots, 11¼c. per pound; less car lots, 11¾c. per pound; special resin grade, drums, car lots, 10¼c. per pound, and less car lots, drums 10¾c. per pound.

Cresylic Acid.—Prices released by one producer for first quarter of 1942 for special blends, high and low boiling acids at 81c. per gallon in car lots, and 83c. per gallon in less car lots. Supplies scarce, and deliveries allocated.

Naphthalene.—One prominent producer adjusted prices for first quarter for crude 74 degree to basis of $2.75 per 100 pounds in tanks, 78 degree, tanks, $3 per 100 pounds; refined, liquid, tanks, $5.75 per 100 pounds chipped, car lots, bags, $5.90, and barrels, $6 per 100 pounds.

Phenol.—Another producer released prices for first quarter of next year for U.S.P. on the basis of 11½c. for tanks; car lots, 12½c. per pound, and less car lots, 13¼c. per pound. Supplies under allocation.

Pyridin.—Business booked for early next year on the basis of $1.71 per gallon for denaturing grade and 46c. per pound in less car lots, drums, for 2 degree refined.

Tar Acid Oils.—One producer released prices for first quarter 1942 as follows:—15 percent, drums, car lots, 27½c. per gallon; less car lots, 29½c. per gallon; 25 percent, drums, car lots, 31½c., and less car lots, 33½c. per gallon.

Toluol.—Bulk of material moving to defense channels. Contracts taken for next year at the one-cent per gallon increase announced previous period.

Xylol.—Offerings continued limited, while contracts were booked for next year at levels one cent above those prevailing previously.

Chicago.—Demand is good for coaltar bases, with the market generally strong. Inquiry has tended along better lines. Benzol continues to be steady to strong. Movement of it is good and buyers show much interest. Ruling prices exclusive of tax are:—Benzol, 90 percent, 15c. per gallon; motor benzol, 8c. to 9c. per gallon; toluol, 28c. per gallon; 10-degree xylol, 27c. per gallon; solvent naphtha, 27c. per gallon; creosote oil, grade 1, 13½c. to 14c. per gallon.

### *Anthraquinone*

A threatened scarcity prevails in the market for anthraquinone because of conditions surrounding raw materials supplies. Phthalic anhydride and aluminum, two of the basic materials necessary in the processing of anthraquinone, are also important components of plastics and aeroplanes for national defense. On the other hand the material plays an important part indirectly in the defense program, since it is the starting point of vat, alizarine, chrome, acid, acetate blues, greens and violet dyes and pigments of the phthallocyanine blues and greens.

The government needs these dyes for the production of cotton and woolen uniform fabrics, camouflage paints, etc. Heavy demands are made on the dyestuff manufacturers on the part of mills, which are processing contracts for the Quartermaster, the Navy and Marine corps and other auxiliary services.

Pricewise the market has not been subject to much fluctuation over a long period of time. An adjustment did occur in the quotation since the start of the war in 1939, bringing the current price level to the basis of 70c. per pound.

## Coaltar Acids

Anthranilic. — Buying steady, offerings limited, market position firm.

Benzoic. — Shipments active against contracts. Prices rule firm.

Broenner's.—Consumers made moderate replacements. Prices remain the same.

Cleve's. — Transactions routine. Pricewise a firm tone prevailed.

Fumaric. — Active inquiry. Prices lack change and tone firm.

Gamma. — Withdrawals moderate. No change occurred in the prices.

H.—Routine dealings. Nothing new took place in the prices.

—*Continued on page* 33

**Current prices on coaltar products are given in the alphabetical list of prices beginning on page 7**

## *Export License Setup To Be Changed Jan. 19*

—*Continued from page 4*

modities are now being made. The changes from general licenses to individual licenses does not mean, however, that the exportation of the articles and materials concerned will be prohibited. After January 19, 1942, a great many articles and materials of which there is no immediate shortage may continue to be exported on general licenses as at present.

The filing of individual applications for licenses will afford the Board of Economic Warfare the opportunity to examine each proposed shipment in the light of wartime requirements.

Effective December 32, existing general licenses covering shipments of the commodities listed below will be amended to permit shipment under general license to the following destinations only:—

| | |
|---|---|
| Abrasives | 1, 2, 47, 61, 62, 63 |
| Animal oils, fats and greases | 1, 2, 3, through 24, 47, 61, 62, 63 |
| Antimony | 1, 2, 61, 62, 63 |
| Aspirin | 1 through 81 |
| Chrome pigments | 1, 2, 61, 62, 63 |
| Chromium, other than pigments and tanning materials | 1, 2, 61, 62, 63 |
| Chromium tanning materials | 1, 2, 61, 62, 63 |
| Cork | 63 |
| Gases | 1, 2, 47, 61, 62, 63 |
| Manganese | 1, 2, 61, 62, 63 |
| Mesothorium | 63 |
| Paraffin wax | 1, 2, 61, 62, 63 |
| Procaine and related compounds | 1, 2, 47, 61, 62, 63 |
| Rubber manufactures, other | 1 through 81 |
| Scientific and professional | 1 through 81 |
| Sperm oil | 1, 2, 61, 62, 63 |
| Tantalum | 1, 2, 61, 62, 63 |
| Tin compounds, other | 1, 2, 61, 62, 63 |
| Titanium dioxide | 1, 2, 61, 62, 63 |
| Titanium salts & compounds, other | 1, 2, 61, 62, 63 |
| Vegetable products | 1, 2, 47, 61, 62, 63 |
| Whale oil | 1, 2, 61, 62, 63 |
| Witherite | 1, 2, 47, 61, 62, 63 |

## Tinfoil Ban Order To Be Changed Drastically

*OPD Washington Bureau*
*December 23, 1941*

The Priorities Division of the Office of Production Management today announced that the stoppage in tin imports from the Far East has made necessary drastic changes in the pending limitation order relating to the manufacture of lead and tinfoil. The December 24 effective date of the order has been pushed back, pending the issuance of a new order on the uses of tin. The order originally called for the prohibiting of the manufacture of lead and tinfoil after January, and its use after March 15.

## *War Dept. Procurement To Be Decentralized*

—*Continued from page 4*

termine at his own discretion whether contracts for smaller amounts should be subjected to approval in Washington.

This direction will apply also to change orders and supplemental agreements, except where changes are contemplated in the form of the contracts from the usual types. Previously, it was required that awards in excess of $500,000 be cleared through the office of the Under Secretary.

In all cases where it will expedite procurement, it will not be necessary to advertise for bids on contracts. Contracts will be negotiated on a-cost-plus-a-fixed-fee basis only when the use of that form of contract is essential.

Regulations requiring approval by the Office of Production Management of all contracts of $500,000 or more will be revised to require OPM approval only of contracts totalling $1,000,000 or more.

The Under Secretary of War also placed the responsibility on the chiefs of supply arms and services to see that supply contracts involving new construction or extensive new machine tool installations be not entered into unless essential, and that in any event, such new construction and machine tool installations be held to an absolute minimum.

**Frank C. Farinella** has joined the staff of Rene Weil, mineral chemicals, this city, as assistant manager of the chemical sales department.

## Bids Wanted

**Alumina Sulphate:**—75,000 pounds; Project Engineer, Fort Benning, Ga.; circular 6406-193, opening January 2.

**Burnt Umber Pigment:**—2,400 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Cerric Ammonium Nitrate:**—800 pounds; Commanding Officer, Picatinny Arsenal, N. J.; procurement 1336, opening December 30.

**Chrome Green Pigment:**—10,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Lime, Hydrated Chemical:** — 75,000 pounds; Project Engineer, Fort Benning, Ga.; circular 6406-192, opening January 2.

**Linseed Oil:**—1,500 gallons; Commanding General, Rock Island Arsenal, Ill.; circular 1503, opening January 3.

**Magnesium Silicate:**—1,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Hydroquinone:**—1,000 pounds; Contracting Officer, Wright Field, Materiel Div., Dayton, Ohio; Circular 1539, opening December 26.

**Red Lead, Dry:**—40,000 pounds; U. S. Engineer Office, Customhouse, Philadelphia, Pa.; invitation 246, opening December 29.

**Shellac, Flake Orange:**—25,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Sulphuric Acid:**—1,800 pounds; Contracting Officer, Wright Field, Materiel Div., Dayton, Ohio; Circular 1539, opening December 26.

**Titanium-Barium Pigment:** — 20,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Turpentine, Gum Spirits:**—12,000 gallons; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**White Lead Pigment:**—300,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

**Zinc Oxide Pigment:**—30,000 pounds; General Purchasing Officer, Panama Canal, Washington, D. C.; schedule 5840, opening January 8.

## Blacklist Augmented By 425 Nationals

*OPD Washington Bureau*
*December 23, 1941*

The Department of State today added to the blacklist of blocked national 425 names of individuals and business firms in Latin-America. Included were 250 Japanese companies and persons not listed in the order issued earlier this month. Today's list contains thirty-five deletions and a number of amendments.

# Coaltar Chemicals

## Coaltar Acids

—*Continued from page 32*

Laurent's.—Dealings fairly steady, and tone of market firm.

Maleic.—Contract writing for next year well underway. Active demand, and position tight.

Malic.—Transactions moderately active. Prices remain unchanged.

Picramic.—Demand steady. Prices held at previous levels.

Picric.—Inquiries active. Market retained its firmness.

Salicylic. — Material scarce, and prices very firm.

Succinic.—Shipments steady. No change disclosed in the quotations.

Sulphanilic.—Situation tight. Prices unchanged and firm.

Tobias.—Inquiries and shipments well sustained. Prices held firm.

## Other Intermediates

Alphanaphthol.—Market firm, buying steady with offerings limited.

Anilin.—Supplies scarce. Business restricted. Prices firm.

Benzaldehyde. — Technical grades moved in good volume. Prices were firm.

Benzidin Base.—Withdrawals steady and market firm.

Betanaphthol.—Defense and civilian supplies absorb available offerings.

Diethylanilin.—Market position firm. Business moderately active.

Dimethylanilin.—Situation remains tight, inquiries and shipments active. Prices failed to change.

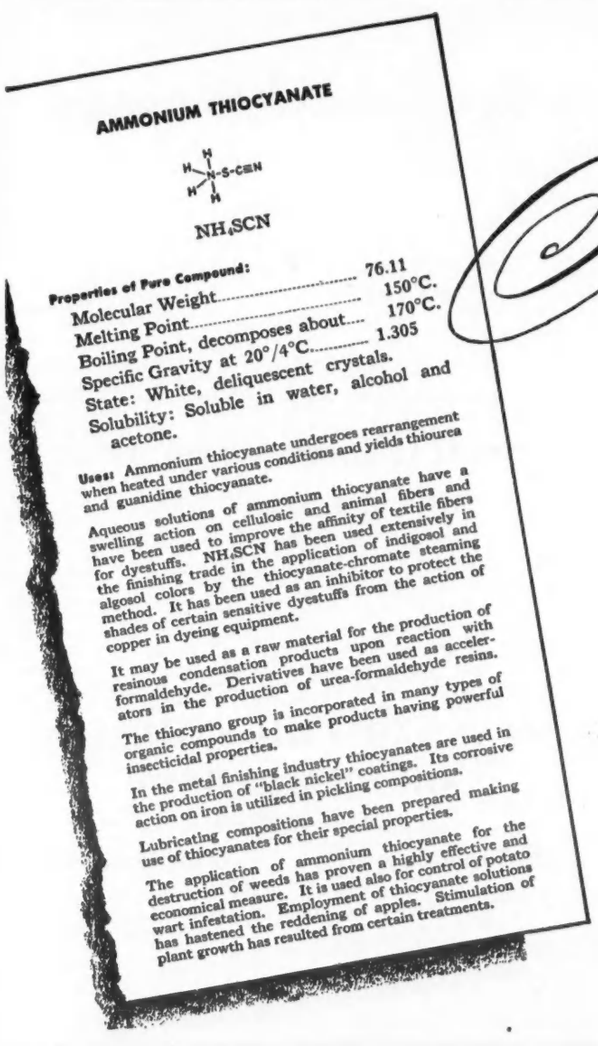
Dinitrobenzene. — Shipments moved steadily against contracts. Prices were unchanged and firm.

Dinitrophenol. — Market displayed firmness, and buying was steady.

Dinitrotoluene.—Offerings restricted, reflecting defense needs. Prices firm.

Diphenyl. — Demand good. No change occurred in the prices with tone firm.

G. Salt.—Dealings following a rou-



AMMONIUM THIOCYANATE
NH4SCN
Properties of Pure Compound:
Molecular Weight 76.11
Melting Point 150°C.
Boiling Point, decomposes about 170°C.
Specific Gravity at 20°/4°C. 1.305
State: White, deliquescent crystals.
Solubility: Soluble in water, alcohol and acetone.
Uses: Ammonium thiocyanate undergoes rearrangement when heated under various conditions and yields thiourea and guanidine thiocyanate.
Aqueous solutions of ammonium thiocyanate have a swelling action on cellulosic and animal fibers and have been used to improve the affinity of textile fibers for dyestuffs. NH4SCN has been used extensively in the finishing trade in the application of indigosol and algosol colors by the thiocyanate-chromate steaming method. It has been used as an inhibitor to protect the shades of certain sensitive dyestuffs from the action of copper in dyeing equipment.
It may be used as a raw material for the production of resinous condensation products upon reaction with formaldehyde. Derivatives have been used as accelerators in the production of urea-formaldehyde resins.
The thiocyano group is incorporated in many types of organic compounds to make products having powerful insecticidal properties.
In the metal finishing industry thiocyanates are used in the production of "black nickel" coatings. Its corrosive action on iron is utilized in pickling compositions.
Lubricating compositions have been prepared making use of thiocyanates for their special properties.
The application of ammonium thiocyanate for the destruction of weeds has proven a highly effective and economical measure. It is used also for control of potato wart infestation. Employment of thiocyanate solutions has hastened the reddening of apples. Stimulation of plant growth has resulted from certain treatments.

Can you use

*Ammonium Thiocyanate*

(Ammonium Sulfocyanide)

***at substantially lower cost?***

Koppers has placed in operation a large commercial plant for the production of ammonium thiocyanate crystals. Supplies are now available in quantities not obtainable before and at costs which make ammonium thiocyanate practical for purposes for which it has not been used in the past.

Chemists and Manufacturers who have previously investigated the possibilities of Ammonium Thiocyanate should reconsider its use in view of this increased supply and reduced cost.

Koppers Ammonium Thiocyanate can be supplied in crystal form, having minimum purity of 95%.

*Samples, Quotations and Further Information on Request*

**KOPPERS COMPANY**
**TAR AND CHEMICAL DIVISION**
PITTSBURGH, PENNSYLVANIA

tine course. No change in the quotations.

Metanitroparatoluidine. — Supplies tight. Pricewise a firm tone predominated.

Monochlorobenzene. — Defense and civilian demands heavy. Prices held firm.

Orthoanisidin.—Shipments continued steady, while prices underwent no change.

Orthochloroanilin. — Prices unchanged and firm. Good demand.

Orthochlorophenol.—Active inquiry. Prices lacked any change.

Orthocresol. — Shipments on allocated basis. Prices held firm.

Orthodichlorobenzene. — Offerings restricted to regular channels for normal needs.

Orthonitroanilin. — Steady demand, market in tight position.

Orthonitrotoluene.—Active interest, and market very firm.

Parachlorophenol. — Offerings limited. Prices firm at previous levels.

Paranisidin.—Good interest. Prices without change and firm.

Paranitroanilin. — Consumers made steady replacements to keep market in strong position.

Paranitrophenol.—Shipments moved steadily against contracts. Prices unchanged.

Paranitrotoluene. — Supplies well taken, and market in firm position.

Phthalic Anhydride. — Market in tight position, offerings usually allocated. Prices held firm.

Thiocarbanilide. — Business steady, offerings restricted, and prices firm.

Xylidin.—Market tight. No change disclosed in the prices with tone very firm.

## Coaltar Colors

Interest continued at active levels in the market for various coaltar colors last week. While sellers were endeavoring to take care of all defense and civilian requirements, the problem of raw materials is still causing considerable concern. Efforts are now underway to solve the situation regarding many intermediates essential for the production of dyestuffs. Sellers were engaged in writing contracts at substantially the same levels for the early part of next year.

## Resale Market

Business in the resale market for coaltar chemicals continued narrow last week. A few transactions occurred, but offerings were usually confined to small lots. Imported cresylic acid was $1.65 per gallon; phenol, 40c. per pound; technical salicylic acid, 35c. per pound, and naphthalene, flake, 14c. per pound.

## *Frolich to Head A.C.S. in 1943*

*—Continued from page 3*

Harry N. Holmes, head of the department of chemistry at Oberlin College, becomes president, succeeding Prof. William Lloyd Evans, head of the department of chemistry at Ohio State University.

The new president-elect was chosen by the society's council from four nominees receiving the largest number of votes in a national mail ballot of the society's 29,000 members. The council includes national officers, directors, editors of the society's publications, past presidents, chairmen of eighteen professional divisions, councilors from the society's ninety-four local sections, and councilors-at-large.

Prof. Arthur J. Hill, of Yale University, and Dr. E. R. Weidlein, director of the Mellon Institute of Industrial Research, Pittsburgh, Pa., were chosen directors. Dr. Charles Allen Thomas, director of the Thomas & Hochwalt Laboratories, Dayton, Ohio, research division of the Monsanto Chemical Company, St. Louis, was named director-at-large.

New councilors-at-large are:—Dr. George D. Beal, assistant director of the Mellon Institute of Industrial Research; Dr. Gustav Egloff, director of research for Universal Oil Products Company, Chicago; Prof. Henry Gilman, of Iowa State College, and Prof. Carl S. Marvel, of the University of Illinois.

## *Adams Made President Of Standard Brands*

*—Continued from page 4*

gate-Palmolive-Peet Company, Jersey City.

Mr. Adams is a native of Brazil, Ind., where he was born August 22, 1897. He studied at the University of Indiana. After some years with George L. Dyer, of New York and Chicago, he was made vice-president and assistant to the president of the Johns-Manville Company, a position he held from 1928 to 1934. From 1934 to 1940 he was vice-president and general manager of Benton & Bowles, Inc., advertising agents. In 1940 he became executive vice-president of Colgate-Palmolive-Peet Company, Jersey City.

## Light Oil Freights Down

The New York Public Service Commission has approved new commodity freight rates of the New York Central Railroad on crude light oil of coaltar, tankcars, minimum weight subject to Rule 35 of Official Classification, from stations East Buffalo to Black Rock, inclusive, to Syracuse and Solvay, and from Harriet to Syracuse, $1.54 per net ton. Reduction. Effective January 4, 1942.

## Hazardous Ship Stores Certification Imperative

*OPD Washington Bureau*
*December 22, 1941*

On and after April 1, 1942, manufacturers and vendors of explosives or other dangerous articles for use as ship stores or supplies must have all such products formally certified by the Bureau of Marine Inspection and Navigation, Department of Commerce.

Provision requiring such certification is included in the amended regulations covering the handling, storage and stowage of explosives and other dangerous articles carried as cargo. The general regulations, issued in accordance with the provisions of an act of Congress dated October 9, 1941, went into effect April 9, 1941.

**Vanadium Corporation** has awarded contracts for construction of two one-story additions to its Niagara Falls, N. Y., plant, at a cost of $125,000.


**Low Temperature Carbonisation, Ltd.**
**ENGLAND**

**Largest manufacturers in the World of low temperature tar acids of the highest possible degree of purity and efficiency.**

**A considerable proportion of the output is already being exported to North and South America for disinfectants, germicidal products and plastics, in addition to the special high efficiency flotation grade for the mining industry.**

**This is the first time in history that highly refined tar acids of this type have been made available on a large scale, and remarkably good results are being obtained by our many American buyers.**

**Please send us a note of your requirements with full particulars to our Sales Agents:—**

**TAR RESIDUALS, LTD.,** "Garthlands," Reigate Heath, SURREY, ENGLAND



*For Immediate Shipment*

**PETROLEUM XYLOL**

**(95% AROMATICS)**

•

*For Solvent Purposes*

•

**AVAILABLE TO CONSUMERS IN TANK CARS ONLY**

**STANDARD OIL COMPANY OF NEW JERSEY**

**SOLVENTS DIVISION**

**26 Broadway • New York City**

# Paint, Varnish, Lacquer Materials

**Dry Color Prices Stabilized Through First Quarter of 1942—Carbon Black Prices Only Exception—Paint Products Demand Heavy—Offerings Limited—Naval Stores Quieter**

Stabilization of prices on chemical colors through the first quarter of 1942 highlighted the activities in the market for paint raw materials last week. The Office of Production Management has concluded individual agreements to this effect with prominent producers. It was a continuation of the action taken at the beginning of this month which pegged prices until January 1. Only prices on peacock blue and English vermilion were excepted.

There were few other new developments in the market last week. Demand remained very heavy for most products, with sales transaction hampered by curtailment of offerings. Producers still were faced with lack of raw materials, and output was not adequate to accommodate all civilian users after taking care of defense demands. Tightness was noted in lithopone, zinc oxides, driers, synthetic resins and various dry colors. Restrictions on deliveries of varnish gums still were in effect.

Business in rosin and turpentine was quieter in Southern and local markets last week, as usual at this season, when consumers are disposed to curtail purchases and await developments over the year-end holidays. Changes in quotations were moderate.

## Metallic Lead and Zinc

Demand for pig lead was at unchanged levels last week. Consumers were showing active interest and were bidding spiritedly. Sales were restricted. Prices were firm and unchanged. Slab zinc movement was restricted by government allocation, with defense industries getting preference. Price was unchanged. October production was 64,135 tons, a 2.88 percent increase over September, according to the Bureau of Mines. Estimates for November indicate an output of about 62,100 tons, a 3 percent drop from October.

Lead.—Prevailing spot prices at New York, East St. Louis and London for the period from December 20 to December 26, inclusive, were as follows:—

| | Pigs | | Spot. London. |
|---|---|---|---|
| | Per pound | | Per ton |
| | New York. | E. St. Louis. | £ s. d. |
| Saturday | $0.0585@.0590 | $0.0570 | * .. .. .. |
| Monday | .0585@.0590 | .0570 | .. .. .. |
| Tuesday | .0585@.0590 | .0570 | .. .. .. |
| Wedn'sd'y. | .0585@.0590 | .0570 | .. .. .. |
| Thursday | † | .... | .. .. .. |
| Friday | .0585@.0590 | .0570 | .. .. .. |

* London exchange closed.
† Holiday.

### Price Changes

**Advanced**

Rosin, gum, pale, 8c. to 25c. per 100 lbs.
Turpentine, gum, ½c. per gal.

**Reduced**

Rosin, gum, dark and medium, 2c. to 15c. per 100 lbs.

### Comparative Values

Index numbers compiled from eleven typical paint and varnish materials on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 137.9 | 137.9 | 137.9 | 127.4 |

Market news that may have developed after this report was sent to press will be found on page 4.

Zinc.—Prevailing spot prices at New York, East St. Louis and London for the period from December 20 to December 26, inclusive, were as follows:—

| | Slabs | | Spot. London. |
|---|---|---|---|
| | Per pound | | Per ton |
| | New York. | E. St. Louis. | £ s. d. |
| Saturday | $0.0865 | $0.0825 | * .. .. .. |
| Monday | .0865 | .0825 | .. .. .. |
| Tuesday | .0865 | .0825 | .. .. .. |
| Wednesday | .0865 | .0825 | .. .. .. |
| Thursday | † | .... | .. .. .. |
| Friday | .0865 | .0825 | .. .. .. |

* London exchange closed.
† Holiday.

## *Shellac*

Twenty-five years ago, in early December, 1916, 4,800 packages of badly-needed American-owned shellac lay interned in the Italian port of Masowah on the Red Sea.

The shellac had been bought before World War No. 1 began. It was cargo on the steamship Strumfels, afloat in the Red Sea on August 4, 1914, and the ship and cargo was first interned and then seized by the Italians.

In the eighteen months the shellac had been held by Italy, spot prices on T.N. advanced from 17c. per pound to 40c. Negotiations through diplomatic channels for release of the seized shellac had failed, and shortages loomed here.

A negotiator was sent to Italy in November, 1916, by the United States Shellac Importers Association, but not until February, 1917, was release obtained and the shellac started for the United States. It reached here February 15 on a 45c. market.

So far, World War No. 2 has lacked such an incident, but prices here have advanced 22½c. per pound and stand today at 32c. per pound for T.N. at a level pegged by order of the Office of Price Administration, with the added restriction that deliveries may be made only to those with defense contracts.

## Pigments

Antimony White.—Good call. Prices steady.

Blue Lead.—Fair demand. No changes.

Flake White.—Routine movement. Tone stable.

Litharge.—Movement satisfactory. Offerings fair. Prices firm.

Lithopone.—Strict allocation rules. Demand heavy. Prices steady.

Orange Mineral.—Buying good. Tone stable.

Red Lead.—Heavy demand. Offerings only slightly curtailed. Prices unchanged.

Titanium Pigments.—Good call. Sales allocated. Prices firm.

Zinc Oxides.—Very scarce. Demand heavy. Sales limited. Prices firm.

## Fillers and Extenders

Asbestos.—Good call. Prices firm.

Asphaltum.—Routine movement. Quotations unaltered.

Barytes.—Movement large. Demand heavy. Tone stable.

Blanc Fixe.—Offerings limited. Prices firm.

China Clay.—Good call. No change in prices.

Pumice.—Satisfactory demand for domestic grades. Prices firm.

Whiting.—Routine movement. Tone firm.

Woodflour.—No Norwegian material available. Prices withdrawn.

## Lacquer Materials

Ceiling prices were increased to the basis of 15.8c. per pound for acetone

**Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7**


**HOOT MON! PARANOL 25**

**FOR A MON WI' AN EYE TO LOW COST PRODUCTION**

Paranol 25 is a bonny buy . . . and the quality would truly surprise a mon wi' a searchin' pair of eyes!

And listen, mon! The way it works wi' softer oils will make your heart do a highland fling for glee.—Sshish! A sample and data dinna cost ye nothin'.

*Our Technical Staff is at Your Service*

PARAMET SYNTHETIC RESINS

PARAMET CHEMICAL CORPORATION
MANUFACTURERS OF SYNTHETIC RESINS
44TH AVENUE AND 10TH STREET • LONG ISLAND CITY, N. Y.

*Improved* **ULTRAMARINE**

Both tests were ground in varnish under the same conditions and are identical in composition and time of flow. But Calco's new, easily dispersed Ultramarine flows nearly 100% farther on an inclined plane than the former type. If you use Ultramarine—its superior "wetting out," saving in grinding time and better dispersion—make Improved Ultramarine good news for you! Write, stating your requirements, and a generous working sample to fit your needs will be sent promptly.

SELLING AGENTS
CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
BOUND BROOK Calco NEW JERSEY
Boston • Philadelphia • Providence • New York • Charlotte • Chicago

Barrett

# CUMAR*

•

For your convenience, The Barrett Division, Allied Chemical & Dye Corporation announces the following schedule of Cumar prices, for the first quarter of 1942:—

| | Pound |
|---|---|
| **HIGH MELTING GRADES** | |
| Cumar W ½ | $ .135 |
| Cumar W 1 | .125 |
| Cumar W 1½ and W 2 | .115 |
| Cumar W 2½—3½ | .105 |
| **VARNISH GRADES** | |
| Cumar V ½ | .1275 |
| Cumar V 1 | .1175 |
| Cumar V 1½ and V 2 | .1075 |
| Cumar V 2½ — 3½ | .0975 |
| **MEDIUM HARD GRADES** | |
| Cumar MH 1 | .1175 |
| Cumar MH 1½ and MH 2 | .1075 |
| Cumar MH 2½ — 3½ | .0975 |
| Cumar MH 9 | .065 |
| **MISCELLANEOUS GRADES** | |
| Cumar RH | .1075 |
| Cumar MS | .1075 |
| Cumar RS | .1075 |
| Cumar P 10 to P 90 Color 2½ and darker | .1075 |
| **DARK GRADES** | |
| Cumar AX | .0625 |
| Cumar BX | .0625 |
| Cumar CX | .0575 |
| Cumar DX | .0525 |
| Cumar EX | .0525 |
| Cumar FX | .0575 |
| **SPECIAL GRADES FOR MASTIC TILE** | |
| Cumar T 3 | .0725 |
| Cumar T 5 | .0675 |
| Cumar T 9 | .0625 |
| Cumar HDX | .0575 |

All prices apply in drums f.o.b. Frankford, Philadelphia, Pa., freight equalized with Pittsburgh, Pa. Mastic tile grades and dark grades except AX and BX sold on gross weight basis. All other grades sold on net weight basis.

Contract and spot prices are the same.

Terms: Net cash thirty (30) days from date of invoice.

**The Barrett Division, Allied Chemical & Dye Corp.**

*... One of America's great basic businesses*

*Trademark of The Barrett Co. Reg. U.S. Pat. Off.

Barrett CHEMICALS

SEND FOR THIS BOOKLET

This new 36-page, pocket-size booklet lists the many important chemicals Barrett manufactures, and provides a finger-tip reference of concise descriptions and uses for each product. We will gladly send your copy on request. No obligation.

LAMP CARBON BONE **BLACKS** LAKE VINE OXIDE

C. J. OSBORN CO., 132 Nassau Street, NEW YORK
Established 1889

# ASBESTINE

Reg. U. S. Pat. Off.
FOR PAINT MANUFACTURERS
INTERNATIONAL PULP CO., 41 Park Row, New York

PLYMOUTH **PLYMOUTH STEARATES**
ALUMINUM — ZINC — CALCIUM — MAGNESIUM
Established Qualities Manufactured for thirty years by
M. W. PARSONS, Imports & PLYMOUTH ORGANIC LABORATORIES, Inc.
59 Beekman Street, New York City

DISTRIBUTORS: THOMPSON-HAYWARD CHEMICAL CO., KANSAS CITY, MO., AND BRANCHES

*Crude, Refined, Processed*

## PAINT and VARNISH OILS

*Sales Representatives*
R. B. Huber
216 Tremont Street, Boston
Geo. E. Moser & Son, Inc., Detroit, Mich.
White & Co., Akron and Cleveland
Marshall Dill, Los Angeles
J. A. Kagan, Dierks Building, Kansas City, Mo.
Brice H. Boyet, Louisville, Ky.
B. & S. H. Thompson & Co., Regd. Montreal and Toronto
Garrigues, Stewart & Davies, Inc. 40 Rector Street, New York

CHINAWOOD OIL
PERILLA OIL
LINSEED OIL
SARDINE OIL
SOYABEAN OIL
OITICICA OIL
RAPESEED OIL
CASTOR OIL
GUM TURPENTINE
QUICKSILVER
*Special Oils to Order*

**PACIFIC VEGETABLE OIL CORPORATION**

*Importers, Refiners, Manufacturers* — 62 TOWNSEND STREET, SAN FRANCISCO, CALIF. — *4½ million gal. U.S. Gov't Bonded Tank Storage*

R. W. Greeff & Co. Inc. RWG New York, U.S.A.

# ISOPROPYL ETHER

**NOW AVAILABLE IN TANK CAR QUANTITIES**

*Selling Agents for*
**SHELL CHEMICAL CO.**

R·W·GREEFF & CO.
10 ROCKEFELLER PLAZA,
NEW YORK CITY

and butyl alcohol by the OPM in order to cover the increased production costs of raw materials. The new maximum price levels will be effective January 1, 1942. So far producers have not issued contract price schedule covering acetone and butyl alcohol for the first quarter of 1942. Price announcements covering other materials were still awaited. Defense needs continued to expand, and sellers were following a strict allocation plan in order to take care of the large number of inquiries.

Acetone.—Ceiling price increased to 15.8c. per pound, compared with 7c. a pound, delivered in tankcars in Eastern territory. Demand active.

Butyl Alcohol.—The ceiling formerly 10¾c. per pound for normal material, delivered in tanks has been raised to 15.8c. per pound.

Cellulose Acetate.—Demand steady. No change disclosed in the prices.

Dibutyl Phthalate.—Defense needs consume bulk of output. Sellers not writing contracts for early next year. Prices firm.

Ethyl Acetate.—Word awaited regarding next year's prices. Market continued in tight position.

Methylethyl Ketone.—Sellers writing contracts at higher levels announced preceding period. Supplies tight.

Tricresyl Phosphate.—Business on allocated basis. Prices continued firm.

## Naval Stores

Quieter conditions prevailed in Southern and local markets for naval stores last week as usual at this season when many consumers and dealers are disposed to curtail purchases until after the year-end holidays. The Savannah market suspended trading from the close of business on Tuesday till the opening today, and the same days will be observed as holidays this week. Rosin showed irregularity, as offerings of some grades were larger than expected, but the undertone of the market was still generally regarded as firm. The tendency of turpentine was upward at times, but changes were not very marked.

While new business showed the slowing down last week that is usually witnessed at this period of the year, the movement into consuming channels apparently held up well and the outlook for 1942 in the matter of business and prices was regarded by many as bullish. Stocks are steadily decreasing and as defense activities are expected to expand for many months to come the opinion exists in some quarters that consumption of rosin and other pine products during the coming year will show an increase over the year now drawing to a close. Also it is believed that exports of pine products under the provisions of the Lease-Lend Act will continue liberal during next year.

### CCC Holdings

The following table shows the quantity of rosin and turpentine held by the CCC under loans to producers at the close of business December 15, 1941:—

| Crop year. | Rosin. | Turpentine casks. |
|---|---|---|
| 1938—bbls. | 193,877 | ..... |
| drums | ..... | ..... |
| 1939—bbls. | 292,327 | ..... |
| drums | 20 | ..... |
| 1940—bbls. | 80,287 | ..... |
| drums | 245,168 | ..... |
| 1941—bbls. | ..... | ..... |
| drums | 130,503 | ..... |
| Totals | 852,182 | ..... |

Turpentine.—The local market was quieter last week as usual at this period of the year, but the tone was firmer in company with the primary market.

Savannah, Dec. 26.—Following is a record of the turpentine market for the week:—

| | Cents per gal. | Barrels Sales. | Receipts. | Shipments. | Stocks. |
|---|---|---|---|---|---|
| *Saturday | .. | ... | ... | ... | ... |
| Monday | 68½ | 6,100 | 348 | 2 | 1,691 |
| Tuesday | 68½ | 6,800 | 254 | 182 | 1,763 |
| *Wedn'd'y | .. | ... | ... | ... | ... |
| *Thursday | .. | ... | ... | ... | ... |
| *Friday | .. | ... | ... | ... | ... |

* No trading.

Jacksonville, Dec. 23. — Turpentine stock 6,637 barrels.

Pensacola, Dec. 20.—Turpentine stock 7,484 barrels.

Rosin.—The local market for rosin showed irregularity last week in company with the course of prices in the South. Purchasing was limited to small lots, the movement being lighter than in the previous week.

Savannah, Dec. 26.—Following is a record of the rosin market for the week:—

| | Price per unit—Low of range quoted— *Sat. | Mon. | Tues. | *Wed. | *Thurs. | *Fri. |
|---|---|---|---|---|---|---|
| B | ... | $2.95 | $2.97 | ... | ... | ... |
| D | ... | 2.95 | 2.97 | ... | ... | ... |
| E | ... | 3.02 | 3.05 | ... | ... | ... |
| F | ... | 3.00 | 3.02 | ... | ... | ... |
| G | ... | 2.98 | 2.88 | ... | ... | ... |
| H | ... | 2.95 | 2.88 | ... | ... | ... |
| I | ... | 2.96 | 2.88 | ... | ... | ... |
| K | ... | 3.09 | 2.97 | ... | ... | ... |
| M | ... | 3.15 | 3.00 | ... | ... | ... |
| N | ... | 3.20 | 3.05 | ... | ... | ... |
| WG | ... | 3.60 | 3.65 | ... | ... | ... |
| WW | ... | 3.60 | 3.60 | ... | ... | ... |
| X | ... | 3.60 | 3.60 | ... | ... | ... |
| | | Barrels | | | | |
| Sales | ... | 315 | 1,217 | ... | ... | ... |
| Receipts | ... | 563 | 937 | ... | ... | ... |
| Shipments | ... | 570 | 2,643 | ... | ... | ... |
| Stocks | ... | 36,529 | 34,823 | ... | ... | ... |

* No trading.

Jacksonville, Dec. 23.—Rosin stock 220,716 barrels.

Pensacola, Dec. 20.—Rosin stock 14,024 barrels.

## Other Naval Stores

Pine Oil.—Inquiries continued to be reported for spot oil, but offerings were lacking. Some business was said to have been closed in a limited way recently at around $1 per gallon. Producers sold ahead.

Pitch.—Tone firm. Spot supplies light. Inquiry fairly active.

Rosin Oil.—Quotations generally stationary, but tone firmer with raw material. Fair demand.

Tar.—Steady contract movement. New business quieter. Market firm.

## Dry Colors

The OPM has concluded individual agreements with producers of chemical colors stabilizing prices at October 1 levels through the first quarter of 1942. Peacock blue and quicksilver vermilion were excepted. This move was a continuation of action taken earlier this month when the government asked that prices be pegged until the end of the year. Although the list of colors issued by the OPM on which prices will be pegged omitted many types, it was understood that all chemical colors are included.

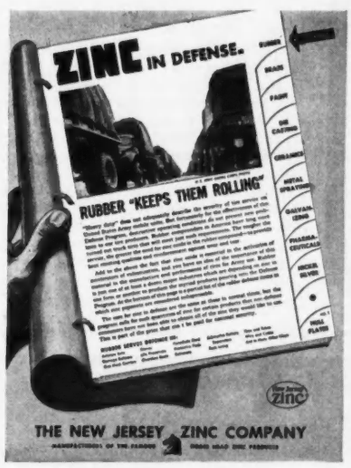
Producers of earth colors have not received any official requests on the matter of price stabilization, but the majority of them will probably abide by the decision reached by chemical color makers and freeze prices until April 1, at least.

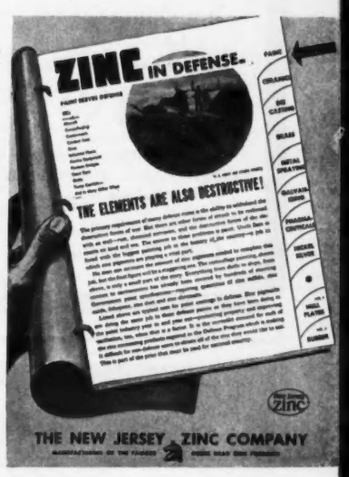
Meanwhile the demand for all colors remained very strong last week, but offerings were curtailed in most instances. The difficulty in securing raw materials hampered production and therefore limited sales. Movement to defense industries was steady.

## Shellac

Since deliveries of shellac are restricted, under an Office of Production Management order, to those with defense contracts, the local shellac market has assumed a quiet position somewhat curious for this more or less volatine item.

Prices are pegged pending further study by the Office of Price Administration and hence the general market has become somewhat routine with sellers showing reserve and awaiting further developments.




# THE STORY OUR ADVERTISEMENTS DO NOT TELL

The advertisements of The New Jersey Zinc Company which are appearing currently in these pages explain the reasons why non-defense consumers have not been able to obtain all of the zinc they would like to have.

At the close of a critical business year, however, The New Jersey Zinc Company feels that it should tell a story which would not normally be a part of such a series of advertisements—a story of the cooperation given to this Company by its customers.

This cooperation, and the resulting exchange of vital information, made possible:

A better understanding of our mutual problems and difficulties;

The elimination of unreasonable demands and unfilled promises;

The fulfillment of contract obligations in spite of a tremendous expansion of business;

The shipment of a large list of zinc products where and when they were needed most—in defense and non-defense fields.

Consequently, thanks to our customers' cooperation and understanding, we feel that a difficult task has been accomplished.

The New Jersey Zinc Company looks forward to 1942 with confidence that this cooperation—which has proved of the greatest value under a heavy strain—will continue to operate to the mutual advantage of all concerned.

160 FRONT STREET New Jersey Zinc NEW YORK, N. Y.

## Varnish Gums

Movement was much slower last week as shipments fell off considerably due to government action prohibiting deliveries except for direct defense needs or to prevent plant shutdown. Stocks in the hands of producers were fairly large and at the instigation of the government adequate means of protecting them were being taken. Prices have been pegged at levels in force December 5.

## Driers

There was little change in basic market conditions last week. Bulk of the material was moving to defense industries, with civilian users getting what they could. Palmitates and stearates were in heavy demand, with offerings restricted. Prices were steady and unrevised.

## Glues and Binders

Casein.—Market unchanged. Prices firm.

Glues.—Heavy demand. Prices nominal.

## Synthetic Resins

Continued tightness for most products featured the market here. Ester gum movement was restricted further as suppliers who had material on hand showed more caution in accepting orders, except for well-established customers. Prices were steady and unrevised.

## Resale Market

The quietness evidenced in the resale market for paint raw materials in the past few weeks continued during the period under review. Pine oil was as scarce as ever and no transactions were reported, although there were frequent inquiries. Nominal quotations were $1 or higher per gallon. Offerings of various lacquer materials, zinc oxides and blanc fixe were not reported.

**Stewart-Warner** Corporation, Chicago, has elected J. C. Elliff and George L. Meyer vice-presidents.

## *Synthesizing Drying Oils*

*—Continued from page 3*

stances having conjugated double bonds, and to provide new products of such procedures.

It is a further object of the invention to provide such new procedures for converting substances having unconjugated double bonds into substances having conjugated double bonds, which procedures are characterized by the fact that they are carried out under nonaqueous or substantially nonaqueous conditions, or under conditions such that any water present is removed from the zone of influence of the reaction so that the reaction as for example by suitable choice of solvents or by vaporizing the water while carrying out the reaction in a sealed vessel is not inhibited by the presence of water.

It is a further object of the present invention to provide a process of reacting upon natural or synthetic materials and their derivatives having unconjugated double bonds, which materials do not form films or do so slowly or partially, to produce substances having conjugated double bonds which do form films or do so more rapidly than the starting material, and to provide new products of such procedures.

It is a further object of the invention to provide a process of increasing the spectographic light absorption in the light ranges of from about 2300 to about 2350 Angstrom units and at about 2700 Angstrom units, of natural and synthetic materials having unconjugated double bonds and materials derived therefrom, and of increasing the "diene number" and of decreasing the "iodine number."

It is a further object of the invention to provide methods of treating and controlling the treatment of natural or synthesized materials having unconjugated double bonds to increase their conjugation, by which methods the degree of increase of conjugation may be regulated and the drying qualities of the finished products derived from the thus treated materials controlled as desired.

It is a further object to provide new and useful procedures for making film-forming compositions from substances such as naturally occurring nondrying oils or naturally occuring oils which dry slowly or partially or the derivatives or reaction products of such oils, which heretofore have not been available ingredients for film-forming compositions or have had to be processed to permit their use, and to provide new and useful film-forming constituents and compositions derived from such materials.

It is also an object to provide new and useful procedures for making paints, lacquers, varnishes, drying waxes and the components of such products, and to provide such new and useful products of such procedures.

It has been shown by Moore (*Biochemical Journal* 31: 138-154. 1937) that when the fatty acids containing two or more double bonds are operated upon by a solution of potassium hydroxide in ethyl alcohol and water, for a long period of time, there is a slow rise in the spectrographic absorption. This reaction is uncertain in that it is frequently impossible to repeat results, and it is extremely slow, in that it may take weeks to approach completion. For instance, it is reported that after one week of reaction the spectographic absorption factor of linseed oil fatty acids which is initially 2½ units at 2300 to 2350 Angstrom units and zero at 2700 Angstrom units rose to 360 at 2300 Angstrom units and 293 to 2700 Angstrom units, and at the end of twenty-five days the absorption factors increased to 410 and 230, respectively. Likewise with corn oil fatty acids having very low initial spectographic absorption factors at 2300 to 2350 and 2700 Angstrom units rose to 110 at 2300 to 2350 and to less than 15 at 2700 units, respectively.

I have discovered that substances containing unconjugated double bonds such as the unconjugated polyenes may be operated upon and that the double bonds thereof may be reoriented into conjugated relationship very quickly when the operation is carried out under nonaqueous or substantially nonaqueous conditions, or under conditions such that if any water is present it is effectively isolated from the media of reaction. When thus carried out it is possible to obtain excellent yields, in some instances approaching or even reaching theoretically quantitative yields, even though the operation is carried out for only a relatively few hours. Furthermore, the reaction proceeds smoothly, it can be repeated with unvarying certainty, and the reaction can be controlled with accuracy, all with the result that the amount of conjugation can be raised to any desired degree up to the theoretical maximum.

My process is applicable to any of the substances in which unconjugated double bonds are present whether natural products are synthesized materials, as, for instance, unconjugated polyene materials such as acids, alcohols, fatty acids, simple or complex esters, glycerides such as are found in natural substances, fats, waxes, and the like. In my procedure I subject such substances containing multiple unconjugated double bonds to the action of an inorganic or organic basic reagent, or to the action of an inorganic basic metal or oxide of a basic metal, in a medium which is nonaqueous or substantially nonaqueous or in one which by the choice of suitable ingredients, any water formed is substantially isolated from the reaction media.

I prefer to carry out my procedure in the presence of a nonaqueous solvent capable of carrying the basic reagent uniformly to the material containing the unconjugated double bond which is being operated upon. I have also found that for best results it is desirable to operate under conditions in which, as heretofore explained, the quantity of water present is reduced to a minimum, and to carry out the reaction at elevated temperatures in a vessel which has been evacuated or otherwise maintained under nonoxidizing conditions so that the reactive conjugated double bond containing substances which are produced will not be deteriorated and discol-

*—Continued on page 55*

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Chrome Yellows
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Para Reds Iron Blues
Cadmium Colors
Lake Colors
Ultramarine Blue
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# Oil, Fats, and Waxes

**Quotations Generally Nominal in Absence of Offerings—Ceiling Price Revision Awaited—Refined Cottonseed Oil Futures Market Still Closed — Record Hog Crop**

Miscellaneous oils, fats and greases remained extremely quiet last week, sellers awaiting a revised official ceiling price schedule which, it was believed in some quarters, would make the quotations prevailing early in October the new ceiling-price basis. At that time many products were higher than they were on November 26. Last week quotations were generally nominal, especially in the case of vegetable oils. The market for refined cottonseed oil futures remained closed. No offers of crude cottonseed oil were received from the South.

Meantime, consumption continues on a large scale, and it is contended that depleted supplies in the hands of consumers will have to be replenished in the not distant future. In a recent official survey of the oils and fats situation consumption for 1941 was put at eleven billion pounds, and it is contended by some in the trade here that the indications point to an increase in consumption during 1942.

## Vegetable Oils

Castor, Dehydrated.—Output moving steadily to local and other consumers. Raw material firm. Quotations maintained.

Chinawood.—Offerings still lacking. Importers, dealers and buyers awaiting developments at Washington. Quotations nominal. Importations last week 19,165 drums.

Coconut.—Business in crude and refined at standstill in absence of offerings. Quotations nominal.

Cottonseed.—Edible oil steady. Fair movement of moderate lots.

Oiticica.—Local market quiet. No offerings. Quotations nominal.

Peanut.—Quiet in local and Southern markets. Sellers awaiting developments.

Perilla.—Prices unchanged. Tone steady. Spot stocks small.

Soybean.—Buyers and sellers holding off. Beans irregular. Oil quotations nominal.

### Markets at Other Centers

**Chicago—Dec. 26**

Vegetable oils quiet.

Coconut.—Refined, edible oil, 15c. to 15¼c. nominal, per pound, drums, car lots; 15½c. to 16c., less car lots.

Corn.—Refined, edible oil, 15½c. to 16c., nominal, per pound, drums, car lots; 16c. to 16½c., less car lots.

Soybean.—Crude, December-forward, 12c. to 12¾c., nominal, per pound.

The market for soybeans on the Chicago Board of Trade was quieter. Following is a soybean price record, per bushel, for the week:—

| | High. | Low. | Closing Dec. 26. | Closing Dec. 19. |
|---|---|---|---|---|
| Cash. No. 2. | $1.71½ | $1.70½ | ... | $1.67½ |
| May | 1.78½ | 1.74¾ | $1.77⅞ | 1.73⅝ |
| July | 1.78¾ | 1.75½ | 1.78¾ | 1.74⅞ |

**San Francisco—Dec. 26**

Business in vegetable oils paralyzed by Price Administrator Henderson's freezing order. No quotations. Copra also at a standstill as supplies chopped off by war. Material on hand going against contracted oil.

### Price Changes

**Advanced**

Soybean meal, $2 per ton.

**Reduced**

None

### Comparative Values

Index numbers compiled from twenty-three typical oils, fats and greases on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 177.6 | 177.6 | 171.4 | 100.3 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Linseed Oil

Flaxseed changes generally moderate. Linseed oil and meal quiet.

Flaxseed.—Duluth, Dec. 26.—No interest in flaxseed in this market at present. The only movement is an occasional consignment to Minneapolis.

The week's closing flaxseed price range was as follows:—

| | Cash. | May. |
|---|---|---|
| Saturday | $2.02½ | ... |
| Monday | 2.00¼ | 1.98¼ |
| Tuesday | 1.99¾ | 1.97⅞ |
| Wednesday | 2.01½ | 1.99½ |
| Thursday | ... | ... |
| Friday | 2.02¼ | 2.00¼ |

Crop movement in bushels follows:—

| | Receipts 1941. | Receipts 1940. | Shipments 1941. | Shipments 1940. |
|---|---|---|---|---|
| This week | 5,315 | 1,929 | 25,965 | ..... |
| Since Aug. 1 | 2,957,662 | 4,942,319 | 2,634,475 | 4,749,877 |

Minneapolis, Dec. 26.—Strong demand for cash flax continues, and prices rule firm compared with futures. Receipts much heavier. Elevator stocks decreased 25,000 in three days; year ago, 150,000. Open interest in December futures cleaned up. Total deliveries for the month, 389,500 bushels. Shipping advices from the country are falling off again.

Trade in futures much better, with crushers buying on dips and scale down. Moderate hedging pressure. Trade waiting on Washington ceiling news on fats and oils.

The week's closing flaxseed price range was as follows:—

| | Cash. | May. | July. |
|---|---|---|---|
| Saturday | $2.02½ | $1.99¼ | $2.01 |
| Monday | 2.01¼ | 1.98¾ | 2.00 |
| Tuesday | 2.00¾ | 1.97⅝ | 1.99½ |
| Wednesday | 2.02½ | 1.99½ | 2.01½ |
| Thursday | ... | ... | ... |
| Friday | 2.04¼ | 2.00¼ | 2.02 |

Crop movement in bushels follows:—

| | Receipts 1941. | Receipts 1940. | Shipments 1941. | Shipments 1940. |
|---|---|---|---|---|
| This week | 147,000 | 75,600 | 32,200 | 95,200 |
| Since Sept. 1 | 7,054,400 | 7,565,800 | 727,800 | 312,100 |

Winnipeg, Dec. 26.—The week's closing flaxseed price range was as follows:—

| | Cash. | May. | July. |
|---|---|---|---|
| Saturday | $1.55⅝ | $1.58¾ | $1.58⅞ |
| Monday | 1.56¼ | 1.59 | 1.59⅛ |
| Tuesday | 1.57 | 1.59⅝ | 1.59¼ |
| Wednesday | 1.57⅛ | 1.59⅞ | 1.59⅝ |
| Thursday | ... | ... | ... |
| Friday | ... | ... | ... |

Buenos Aires, Dec. 26.—Flaxseed, $1.08¾ per bushel. Exports this week, 772,000 bushels, including 583,000 to the United States. Total since January 1 as follows:—

| To— | Bushels This year. | Bushels Last year. |
|---|---|---|
| United States | 22,216,000 | 12,826,000 |
| United Kingdom | 2,995,000 | 6,258,000 |
| Continent | 1,138,000 | 11,880,000 |
| Orders | ..... | 606,000 |
| Others | 1,446,000 | 1,237,000 |
| Totals | 28,815,000 | 32,807,000 |

**Visible Supply**

| | Bushels. |
|---|---|
| Last week | 27,559,000 |
| Previous week | 27,550,000 |
| Last year | 4,331,000 |

Linseed Oil.—A steady movement of linseed oil was noted here on contracts, but new business remained quiet. Crushers were not inclined to offer and quotations were nominal. The final government report on the 1941 flaxseed crop in this country was 31,485,000 bushels, an increase of 2 percent over 1940. Seeding of the 1942 crop in California and Arizona is making good progress, with the indications pointing to an area about the same as in 1940. The first official estimate of the new crop in Argentina was 66,929,000 bushels as compared with a first estimate last year of 78,740,000 bushels and a final estimate of 57,480,000 bushels. Weather conditions in India unfavorable for seeding.

Minneapolis, Dec. 26.—No trade in linseed oil except for some five-drum lots. Ceiling too low to permit crushers to operate at a profit. Advance in Argentine prices further complicates matters. Buyers of oil are getting more restive, and crushers cannot deal at a profit, so the situation is virtually dead in so far as new business is concerned.

Shipping instructions on maturing contracts rule excellent and mills still are running at full blast. Nominal quotations f.o.b. Minneapolis 10.4c. per pound.

Shipments of oil in pounds were as follows:—

| | 1941. | 1940. |
|---|---|---|
| This week | 3,800,000 | 2,200,000 |
| Since Sept. 1 | 73,450,000 | 59,950,000 |

San Francisco, Dec. 26.—Steady movement of linseed oil on contracts. New business quiet. Consumers rather well bought ahead. Tankcars 10.3c. per pound.

Chicago, Dec. 26.—Business fair in linseed oil. Tankcar, 10.4c., nominal, per pound; drums, car lots, 11.3c.; drums, less than car lots, 11.7c.

Linseed Meal.—Market steady. Fairly active on contracts. New business quiet.

### Live Hogs

The production and market supply of hogs in 1942 promises to materially exceed all previous records, the Department of Agriculture states in its December pig crop report, issued last week. The combined spring and fall pig crop of 1941 is estimated at 85,035,000 head. This number is about 5,200,000 head, or 6½ percent larger than the combined crops of 1940. The number of pigs saved in the fall season of 1941, estimated at 35,580,000 head, is 18 percent larger than the fall pig crop of 1940, 33 percent above the ten-year average from 1930 to 1939 and about 6 percent larger than the previous record fall crop of 1939. The number of sows farrowed this fall, estimated at 5,531,000, was up 16 percent from last year and was the largest on record. The number of pigs over six months old on the farms on December 1 was larger than a year ago.

**Current prices on animal, vegetable, and fish oils (under Oil), fats and greases (under Grease) are given in the alphabetical list of prices beginning on page 7**

STEARIC ACID
Single Pressed and Double Pressed
*Available in either cake or flake form*
Triple Pressed
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(OLEIC ACID)
RUBY OLEINE
BRAND (*distilled*)
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ASHLAND 4-8251 CABLE: GROSSRAY

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Palm Oil Fatty Acids
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Coconut Oil Fatty Acids
Corn Oil Fatty Acids
Specialty Fatty Acids
Glycerine - Pitch - White Oleine
FACTORIES: Dover, Ohio - Los Angeles, Calif. - Toronto, Canada
CALIFORNIA OFFICE: 5636 East 61st Street, Los Angeles
Cable Address: "EPILOGUE"

Minneapolis, Dec. 26.—Sharp demand for linseed meal and crushers well sold out for the next ninety days. Some will not quote for earlier than April delivery. Shipping instructions very good and record shipments are being made.

Market quoted at $39 to $39.50, f.o.b. Minneapolis, in car-load lots, 100-pound sacks.

Shipments of meal in pounds were as follows:—

| | 1941. | 1940. |
|---|---|---|
| This week | 12,820,000 | 8,840,000 |
| Since Sept. 1 | 166,860,000 | 127,954,000 |

Chicago, Dec. 26.—Linseed meal business is fairly good. Car lots, $38 to $38.50; less than car lots, $40.

Market here for refined oil futures still closed. Southern markets quiet.

Cottonseed Oil.—The market here for refined oil futures remained closed last week in the absence of any action at Washington with respect to a revised price ceiling. There was an expectation of an announcement in this connection in the not distant future and in some quarters the opinion existed that prices prevailing early in October would be made the basis of new ceiling schedules. There was still a lack of offerings of crude cottonseed oil from the South where mills were generally closed down for the holidays. Offerings of coconut and other vegetable oils were lacking here.

The market for soybean futures in the West was quieter and price changes were within narrower limits than recently. Changes in lard futures were also narrow. The quantity of cotton ginned to December 13 was 9,915,117 bales against 11,430,454 bales in the same time last year. Receipts of hogs in Western markets were moderate. The government December pig crop was issued last week. It stated that the 1941 fall pig crop, which will be marketed largely in the spring and summer of 1942, is 18 percent larger than the fall crop of 1940 and the largest fall crop on record. The indicated number of sows to farrow in the spring season of 1942 is 28 percent larger than the number farrowed in 1941, also the largest on record.

Chicago, Dec. 26.—Cottonseed oil quiet. Refined, edible oil, 15¾c. to 16c., nominal, per pound, drums, car lots; 16¼c. to 16½c., less car lots.

Cake and Meal.—Southern market quiet. Offerings light in all sections. Quotations nominal.

### Markets at Other Centers

**Atlanta—Dec. 26**

Cottonseed products quiet. Meal $39.50 to $40 per ton or higher. Crude oil nominal.

**Memphis—Dec. 26**

No trading in crude cottonseed oil. Meal, 41 percent, $39 per ton, Memphis basis. Bulk cake $39.50, Valley basis. Bulk hulls $6 per ton, mill points. Closing cottonseed and soybean meal quotations on Memphis exchange as follows:—

| | Dec. 18. | Dec. 24. |
|---|---|---|
| January | $38.60@39.00 | $38.65@39.15 |
| March | 39.35@— | 39.30@— |
| May | 39.40@39.70 | 39.40@— |
| July | 39.50@40.00 | 39.60@40.25 |

Closing soy bean meal futures:—

| | | |
|---|---|---|
| January | $38.30@38.85 | $38.80@39.50 |
| March | 38.00@38.50 | 37.90@38.65 |
| May | 38.00@— | 38.00@38.25 |
| July | 37.75@38.25 | 35.05@38.25 |

### Fatty Acids

Capric Acid.—Fewer inquiries received. Quotations maintained. Tone steady.

Castor Oil.—Firm with basic material. Trade quieter.

Cottonseed Oil.—Buyers and sellers awaiting developments in raw material. Prices nominal.

Red Oil.—Quotations stationary. Steady movement on contracts.

Stearic Acid.—Prices unchanged. Trade quieter.

**Chicago—Dec. 26**

Fatty acids fairly active. Corn oil, double distilled, 14¾c. to 15c. per pound, tankcar; 15¼c. to 15½c., drums, car lots; 15¾c. to 16c., drums, less than car lots; coconut oil, acidulated, 16½c. to 16¾c. per pound, tankcar; 17c. to 17¼c., drums, car lots; 17½c. to 17¾c., drums, less than car lots; cottonseed oil, double distilled, 14c. to 14¼c. per pound, tankcar; 14½c. to 14¾c., drums, car lots; 15c. to 15¼c., drums, less than car lots; settled cottonseed soap stock, 65 percent basis, 3¾c. to 4c.; boiled down soap stock, 65 percent basis, 4¾c. to 5c.; cottonseed foots, 50 percent basis, 3¾c. to 4c.

### Fish Oils

Cod.—Local market firm. Primary offerings light. Fair inquiry.

Menhaden.—Refined quotations stationary. Local stocks light. Trade quiet.

Sardine.—Purchasing of refined oil limited to small lots. Market steady.


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### Markets at Other Centers

**Baltimore—Dec. 26**

Crude menhaden oil business at standstill, sellers and buyers awaiting developments. Last sales at 60 cents per gallon. Refined oil quiet and steady.

**San Francisco—Dec. 26**

Business in sardine oil remains at standstill. Fishing boats expected to operate again shortly after stopping on outbreak of war. Boats already resuming between Monterey and Southern California. Thirteen thousand tons raw fish brought in during week ended December 1.

## Fats and Greases

Grease.—Inquiry light. Offerings limited. Market steady.

Chicago, Dec. 26.—Choice white grease, 8¾c. per pound; yellow, 8¼c.

Lard.—Local movement limited to small or moderate lots. Market steady.

Chicago, Dec. 26.—Following is a lard price record, per 100 pounds, for the week:—

| | High. | Low. | Closing Dec. 26. | Closing Dec. 19. |
|---|---|---|---|---|
| Cash | $9.85 | $9.85 | $9.85 | $9.85 |
| Jan. | 9.95 | 9.95 | 9.95 | 9.97 |
| May | 11.52 | 11.52 | 11.52 | 11.52 |

Stearin.—Local market steady. Spot stocks light. Trade quiet.

Tallow.—Offerings remained light. Buyers holding off. Market steady.

Chicago, Dec. 26.—Inedible tallow, prime, 8¾c. per pound; special, 8½c.

## Animal Oils

Degras.—Local trade quiet. Stocks small. Raw material firm.

Lard.—Quotations stationary. Consumption steady. New business quiet.

Chicago, Dec. 26.—No. 1 lard oil, 13½c. to 13¾c. per pound.

Neatsfoot.—Prices unchanged. Raw material in light supply and firm. Fair request.

Oleo.—Local trade fair. Supplies light. Tone firm.

Chicago, Dec. 26.—Extra oleo oil, 12¼c. to 12½c. per pound.

Tallow.—Quiet and steady.

Chicago, Dec. 26.—Acidless tallow oil, 13½c. to 14c. per pound.

## Waxes

Bees.—OPA pegs prices. Affects crude Brazilian, Chilean and American. Also refined African and white bleached. Prices appear elsewhere, this issue.

Candelilla.—OPA pegs prices. Ratifications dated December 24, 6:11 p.m. See prices elsewhere, this issue.

Carnauba.—OPA telegram, dated December 24, 6:11 p.m., pegs prices. Schedule printed elsewhere, this issue.

Ouricury.—OPA pegs prices on all grades. Telegrams to trade dated December 24, 6:11 p.m. Schedule elsewhere, this issue.

## Resale Market

There was no activity among resellers of oils and fats last week. Offerings were lacking throughout the period, and consumers were also holding off for further developments. Supplies in the hands of resellers are believed to be very light.

San Francisco, Dec. 26.—Trade here declares that the November 26 price ceiling as proclaimed by OPA, is too low and market is stalemated.

## Hog Buyers Indicted In Antitrust Suit

A federal grand jury sitting at Omaha, Nebraska, has returned an indictment charging four meat packers and three individuals with conspiracy to violate the antitrust laws, by refusing to compete with each other in the purchase of hogs at so-called "country buying points."

Named as defendants were: John Morrel, & Co., Armour & Co., the Cudahy Packing Company, Wilson & Co. and E. J. Kunkel, R. E. Secor and Floyd M. Sherwood, head hog buyers respectively for Cudahy, Morrell and Armour.

The indictment charged that the defendant packers purchase large quantities of hogs at various country buying points within the States of Nebraska and Iowa; that certain buying territories are assigned among the defendants in such manner that only one of them buys in a particular territory. The indictment charged further that the effect of the conspiracy was to suppress competition among the defendant packers and to deprive hog raisers within the States of Nebraska and Iowa from receiving prices based upon competitive buying.

## Obituaries

### Robert Smith

First-class seaman Robert Smith, son of George F. Smith, chemical merchant with offices in the Lincoln building, this city, was among the casualties when the U. S. S. Utah was bombed at Pearl Harbor. He was twenty-one years of age.

Robert Smith

Robert Smith was a native of this city and was educated at Flushing High School and the McBurney School.

Surviving, in addition to his father, are his mother, three brothers and two sisters.

### Dr. Alexander Lowy

Dr. Alexander Lowy, professor of organic chemistry at the University of Pittsburgh, died in Pittsburgh, December 25. He was fifty-two years of age.

Graduating from Columbia University in 1915, where he conducted research work in electro-chemistry before joining the faculty of Pittsburgh University, Dr. Lowy became a specialist in protective chemicals as dyestuffs. Surviving are his wife, two daughters and a son.

### George C. Venard

George Curtis Venard, a former vice-president of Armour Fertilizer Works, died in Atlanta, December 19, atfer a prolonged illness. He was sixty-seven years old.

Mr. Venard entered the employ of Armour Fertilizer Works in 1900, and continued until his retirement January 1, due to ill health.

Surviving are his wife and two sons.

**Prof. Phillip Cabot,** of the Harvard School of Business Administration, died unexpectedly December 25 in his home in Cambridge, Mass. He was sixty-nine years old. Professor Cabot presided last year at the first session of the meeting of the American Pharmaceutical Manufacturers Association with the Harvard school.

**Ralph M. Clutton,** purchasing agent for the National Sugar Refinery, Edgewater, N. J., died December 20, at his home in Yonkers, N. Y. He was fifty-three years of age.

**Sir Francis D'Arcy Cooper,** chairman of Lever Brothers and Unilever, Ltd., died December 18 at his home in Surrey, England. He was fifty-nine years of age.

**Jacob E. Fricker,** vice-president in charge of engineering for the Air Reduction Corporation, this city, died at his home in Stanford, Conn., December 20. He was fifty-two years of age.

**A. H. Van Gorder,** a vice-president of McKesson & Robbins, Inc., drug manufacturers, died in Willoughby, Ohio, December 22. He was eighty-nine years of age.

## *Washington Talks It Over*

*—Continued from page 5*

rector of the ODT will have only advisory influence over I.C.C. in the matter of rates, but is to coordinate the powers and efforts of I.C.C. and all other Federal agencies dealing with domestic transportation, which includes railroads, highways, inland waterways, pipelines, air transport, and coastwise and intercoastal shipping.

Among other powers, he is to coordinate and direct domestic traffic movements to avoid terminal congestion and obtain maximum flow of traffic, and to provide additional transportation and terminal facilities if needed. Functioning of this agency may prevent future deadlocks such as the three-cornered fight of pipelines, railroads, and Maritime Commission over construction of the big defense oil pipeline last Fall.

### Insulin Protection

It is no credit to the foresight of the drug and medical fraternities that Congress rushed through a special law to protect the quality of insulin a few days before the patent expired. They knew for seventeen years that the patent would run out December 23, 1941, and that thereafter anybody could make insulin, but they couldn't figure out what to do about it until the final week of the patent's life.

Insulin wasn't even put in the U.S.P. to give it an official standard, and even when it is there the variations clause in the food, drug, and cosmetic law—put there through the insistence of the drug trade—would permit any manufacturer to market an off-standard grade. So special legislation had to be rushed through by a Congress frightened by what might happen to a million or more diabetics who keep alive by administering their own insulin.

### Alien Property

An administrative problem still unsolved is who will handle alien property taken over by the government. In the last war the Department of Justice did it, and the President has designated Leo T. Crowley, head of the Federal Deposit Insurance Corporation, to do the job in this war, but the authority of the Department of Justice is still rather vague.

The Treasury has been handling frozen assets of foreigners up to now and thinks its jurisdiction includes physical properties as well as funds. On this assumption it recently sent agents to take over administration of the General Aniline & Film Corporation.

The growth of an independent American chemical industry is generally attributed to the seizure of German firms and patents by the Alien Property Custodian during the last war, but this time the seizure of German, Italian, and Japanese chemical business here will have little effect on the industry as a whole.

Observers are amused at the desperate efforts being made by a few concerns to cover up suspicions of German control or heritage by appointing as top executives men who stand high in the graces of the administration. This ruse, if that is what it is, is not expected to save such concerns from exacting scrutiny and perhaps seizure when the Alien Property Custodian really gets to work.

### Government Decentralization

Office and dwelling space is so scarce in Washington and suburbs that the government has to move some of its nonwar agencies to other cities, but every agency can think of plenty of reasons why it should remain here. The Budget Bureau got desperate this week and told twelve of them they must get out at once, and immediately the pressure went on to reverse the decision. Biggest fight is being made by the Patent Office, aided by its large body of resident practitioners.

Each one of those selected is pretty much a self-contained unit having relatively little contact with other government activities and theoretically could function as well in any city. But employees threaten to switch to war agencies in order to keep their homes in Washington, and this, plus the disorganization of moving, may greatly impair the efficiency of the transferred units.

The pressure is so great that there is no certainty that all of the marked agencies will move, but the Budget Bureau insists somebody must move out and is going on down the list looking for others that can be evacuated. There is no telling what units may end up in some faraway city before the war is over.

## *Priorities Div. Withdraws Aid from Cottonseed Co.*

*—Continued from page 3*

The Priorities Division stated that "with full knowledge of this order" Enterprise nevertheless sold its entire production of cotton linters for the months of August and September to dealers or consumers for non-chemical uses. In addition, the Division said, the company obtained approximately 7⅞ cents a pound for the linters, while the maximum price for linters sold to the chemical industry has been set by the Office of Price Administration at 3.35 cents a pound.

Under the terms of the suspension order, the company, its successors and assigns are forbidden until June 30, 1942, to accept deliveries of cottonseed or to make deliveries of cotton linters except as specifically directed by the Director of Priorities. All other persons are forbidden to make deliveries of cottonseed to, or accept deliveries of, linters from Enterprise in violation of the terms of the order.

### N.J. Standard Seeks To Collect Foreign Dividends

Standard Oil Company of New Jersey has filed suits in the New York Supreme Court against three European subsidiaries to collect dividends in excess of $800,000 declared in Denmark, Norway and Belgium. The New Jersey Standard applied also for warrants of attachment against account of the defendant companies in New York.

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# *Santophen 7*

## A DISINFECTANT ☆ AN ENHANCING AGENT

### SPECIFICATIONS

*Appearance:* Light yellow, semi-crystalline mass

*Specific Gravity:* 1.088—1.098 (55°C/55°C)

*Refractive Index:* 1.579—1.589 (55°C)

*Crystallizing Point:* 40°C min.

### USES

**1. As a Disinfectant:** Santophen 7 is highly effective in hospital and general disinfectants and for cold instrument sterilization. It is easily formulated in aqueous solutions with dispersing agents, such as sulfonated oils and soaps; with caustic soda; with solvents, such as alcohol; and combinations of the foregoing.

**2. As an Enhancing Agent:** Santophen 7 effectively enhances coal tar and cresylic acid disinfectants. Its effectiveness is in the order of one phenol coefficient unit for each one per cent by weight of Santophen 7 added.

### IS THIS WHAT YOU'VE BEEN LOOKING FOR?

If you have been searching for an effective germicide or enhancing agent to improve your present formulas or to replace materials formerly used, it may pay you to check these facts on Santophen 7.

A mixture of ortho- and parabenzylphenol, Santophen 7 is highly toxic to bacteria fungi, algae and protozoa. Clear solutions can be prepared which do not stain or discolor surfaces to which they are applied. Its faint, not unpleasant phenolic odor can easily be masked if desired. It is not corrosive to metals, and its formulations, particularly with soaps, are applicable to cold instrument sterilization.

For samples and full information, write: MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, St. Louis, Mo. District Offices: New York, Chicago, Boston, Detroit, Charlotte, Birmingham, Los Angeles, San Francisco, Montreal.

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SERVING INDUSTRY...WHICH SERVES MANKIND

# Drugs, Fine Chemicals

**Producers Work on New Prices for Ethyl, Butyl Alcohols and Acetone—More Methanol to Make Formaldehyde —Refiners Crude Glycerin Cost Equalized**

Price activity was not very great last week in the market for drugs and fine chemicals. For the greater part of the period business underwent at least a part of the usual slackening incident to the approaching end of the year. However, in view of the high volume of requirements of the nation, the slower movement of trade was totally without effect on prevailing values.

A most important event was one that was in the making. In the previous week the Office of Price Administration raised the price celings on ethyl alcohol, acetone, and butyl alcohol. The effective date was January 1 next. The ceilings were raised substantially to encourage production of these materials from corn. Producers of the items were busy last week working out new schedules of prices. It was not known whether or not they would raise values to the limits permitted by the OPA pronouncement. Early announcement of the schedules was expected.

Blackstrap molasses was strong and higher in all markets, a fact that will fit into a higher schedule to come on alcohol. Castor beans were up in Brazil without spot prices on oil being changed.

Quicksilver on spot was scarce at still higher levels. It has proved impossible to create a reserve of unsold metal on this market, and the outlook for an easement in supplies was considered poor.

The Office of Production Management has arranged for more methanol to be diverted to formaldehyde manufacture. It also has equalized the cost of crude glycerin to refiners in different parts of the country.

### Price Changes

**Advanced**

Castor beans, $1 per long ton.
Molasses, black strap, 2c. per gal.
Quicksilver, $2 per flask.

**Reduced**

None.

### Comparative Values

Index numbers compiled from thirty-five typical drugs and fine chemicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 242.2 | 242.1 | 226.3 | 204.0 |

Market news that may have developed after this report was sent to press will be found on page 4.

Acetone. — Producers have yet to make announcement of prices based on the new ceiling set by OPA. Schedule in making.

Acetanilide. — Very firm, yet showing complete stabilization at prices prevailing for long time past.

Acid, Boric. — Contract renewals swelling totals for consumption in first half, 1942.

Acid, Citric. — Stabilization maintained. Believed that home needs will be met fully next year. Producers pursue careful, well considered sales policy with that end in view.

Acid, Tartaric.—Very strong. Consumption takes production promptly. No surplus supply.

Alcohol. — Producers working out new schedule. Change permitted by establishment of new ceiling. New ceiling allows much latitude for price advance.

Aloin. — Strong. Higher values may develop. Raw material strength pronounced.

Butyl Alcohol. — Higher prices permitted under new ceiling recently established by OPA. Schedule being worked out. To be announced soon.

Cadmium.—Complete price stabilization through agreement working satisfactorily. Demand takes out production quickly. No surplus in spot market.

Caffeine. — Production absorbed promptly, considering lack of normal supplies, of raw material, producers achieving success in meeting requirements of regular manufacturing consumers.

Camphor.—Very little natural camphor offered spot. No more can reach here for duration of war. Prices strongly held. Are virtually nominal. Expansion of domestic production of synthetic would be welcome.

Castor Oil. — Beans advanced to $78 to $79 per long ton, shipment from Brazil. Crop moving actively. Oil market very firm. Outlook favors high consumption, 1942.

Chicago, Dec. 23.—Castor oil prices are:—Cold pressed, U.S.P., returnable drums, car lots, 13¼c. per pound; drums, less than car lots, 14c. per pound; tanks, 12¾c.; No. 3, extracted, returnable drums, car lots, 13¾c.; tanks, 12⅝c.

Chloroform. — Industrial requirements met with reasonable promptness. Raw materials show upward trend. Some talk of higher chloroform prices noted.

Cocoa Butter. — Strong. Active. Ceiling prices generally observed. No reports of violations thus far.

Codeine. — More active season at hand. Sales to increase. Reserves excellent. Raw material supplies assure coverage of future needs.

Codliver Oil. — Stocks decreasing steadily. Replacements to begin to come from Iceland. Size of Icelandic production in doubt because of war.

Corn Syrup. — Prices remarkably stable. Consumption naturally higher since defense got well under way.

### *Pilocarpine*

The domestic pilocarpine makers have done a nice job with prices despite war times. The rise since September, 1939, has been less than 100 percent, in itself a unique accomplishment in comparison with what has happened to other alkaloid prices.

The market here was $2.25 per ounce when war began. Today, it is $4. A sound, rock-ribbed domestic industry is the answer to the problem that in World War No. 1 was never solved and during which price advances were defensive measures to cut consumption.

World War No. 1 began in August, 1914, with pilocarpine prices at $4. By January, 1917, the price was up to $18, and buyers actually paid $20 on occasions. And supply at no time equaled need until long after the war ended.

Picoparpine price advances are an exception among alalkaloids, most of which have risen sharply in price. Other European alkaloids have been replaced—at a price. The price was replacement at a cost that forced consumer values far above limits recognized as normal by buyers.

Alkaloid manufacture is now, more than ever before, distinctly American. Perhaps management, science, laboratory, and factory skills will keep the business American after the war.

**Current prices on drugs and fine chemicals are given in the alphabetical list of prices beginning on page 7**

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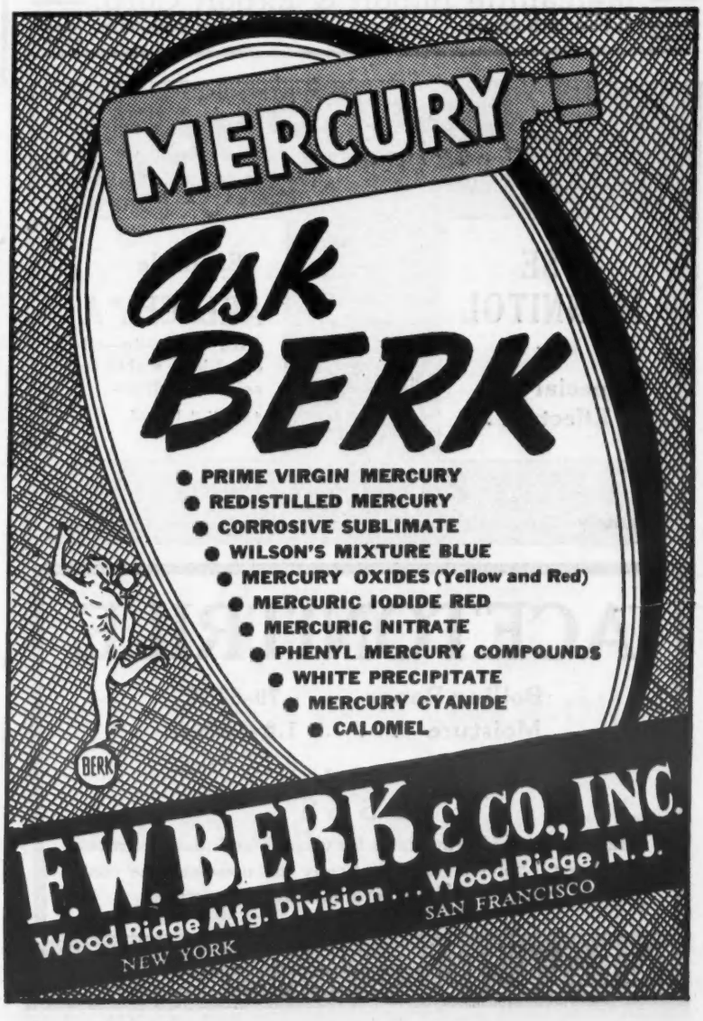

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Acidity . . . . 0.2% Max.
USES
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Ephedrine. — Believed that makers of natural ephedrine provided good stock raw material prior to outbreak of war. Benefits of synthetic production to be realized in event of long war.

Fish Liver Oil.—Scarcity little relieved. Local prices nominal to large extent. Little improvement in Pacific Coast supply.

San Francisco, Dec. 26.—Soupfin shark shipping light and spasmodic. High potency very scarce. Held in strong hands. No quotations made for open market.

Glycerin. — Recent arrangement of OPA to facilitate and equalize deliveries and costs of crude to all refiners working well. Market deeply strong. Demand high. Supplies fair, but not of surplus variety.

Chicago, Dec. 22.—Glycerin prices for both high gravity and chemically pure:—Tankcar, 18c. per pound; drums, car lots, 18¼c.; drums, less than car lots, 18¾c.

Hexamethylenetetramine. — Everything produced goes into consumption promptly. Absolutely no surplus supply. Increased production needed. OPM encouraging increase in raw material stocks.

Iodine and Iodides.—Reserves of Crude believed ample. Route to primary market maintained reasonably free from war interference. Demand good for iodides.

Magnesia.—Very firm. Consumption expected to rise in new year. Output already flowing promptly into consumption. No surplus spot supply.

Menthol.—Actual price to be paid uncertain. Would be at least $14 per pound. Might be as high as $16. Those with stocks of natural item show great reserve. Outlook for production of synthetic not too good. Depends on successful transport of Citronella oil from Java to spot.

Methanol.—Limits on deliveries on methanol for use as ethyl alcohol denaturant, and manufacture of formaldehyde as well as general chemical manufacture removed by OPM. Restrictions continued on use as antifreeze, general denaturant and solvent.

Methyl Acetone.—Every pound produceable required as war needs rise to new heights. Expanded production would be welcome.

Methylethyl Ketone.—In high demand at strongly maintained prices that continue to show upward tendency.

Potash Bromide.—Requirements taking up all offerings promptly. Numerous orders go unfilled as producers hold deliveries to regular consuming sources.

Quicksilver.—Spot would be at least $212 to 215 per flask and practically nothing is available spot. Metal produced on Pacific Coast moved directly to owners, leaving little for open

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AS IN WORLD WAR I
NOW IN WORLD WAR II
OUR laboratories are answering the challenge of keeping pace with the unprecedented demand for alkaloids, glucosides, and allied drug extractives for domestic consumption and for export to the other countries of the Western Hemisphere.
Our alkaloidal chemists and botanical staff are cooperating with you to the utmost in coping with the present emergency in regard to our supplying this vital group of drug products. The service that we are rendering is backed by twenty-four years of continuous production of alkaloids, World War I experience, comprehensive research endeavors, and extensive manufacturing facilities.
INLAND ALKALOID COMPANY
*Manufacturing Chemists*
TIPTON, INDIANA, U.S.A.

market transactions, in the East at least.

San Francisco, Dec. 26.—Good quicksilver demand. Stocks small. Spot and nearby quoted $204 to $205 per flask. Futures, $200. Market very strong.

Quinine.—War in Far East watched closely. Even partial success by Japanese jeopardized future movement cinchona bark and quinine from Netherlands Indies to United States. Excellent reserve stocks held here being conserved by careful sales program that eliminated speculative activity.

Saccharin.—Production proving adequate. No legitimate need goes unfilled. Production now the largest ever.

Santonin.—Limited stocks closely held. Firsthands take strong view on market. Regulating sales carefully that no real need go unfilled.

Seidlitz Mixture.—Strong and sure to remain strong indefinitely. Raw material situation becomes more acute constantly.

Silver Nitrate. — The schedule of prices since the last report prevailed as follows, covering quantities of 250 ounces; quantities of 500 ounces at ¼c. less Comparison of prices of bullion in New York and London is also provided.

| | Per ounce | | |
|---|---|---|---|
| | | Bullion | |
| | Nitrate. Cents. | New York. Cents. | London. Pence. |
| Saturday | 26⅞ | 35⅛ | 23½ |
| Monday | 26⅞ | 35⅛ | 23½ |
| Tuesday | 26⅞ | 35⅛ | 23½ |
| Wednesday | 26⅞ | 35⅛ | 23½ |
| Thursday | 26⅞ | 35⅛ | 23½ |
| Friday | 26⅞ | 35⅛ | 23½ |

## Resale Markets

Resale transactions in drugs and fine chemicals slowed down substantially during the past week. The decrease in sales volume was in keeping with the usual trend of trade during the holiday season and fitted in rather well with the fact that stocks in hands of resellers were not overly ample. In fact, over the past fortnight or three weeks, the shrinkage in supply has been more than pronounced. During the period reviewed, there was definite tightening of the position held by all derivatives of crude tartar. Citric acid at resale was as definitely higher as stocks were definitely smaller. Undertones held very firm.

Quotations noted during the past week were:—Citric acid, 65c. to 70c.; cream of tartar, 63c.; formaldehyde, available on exchange basis, in 40-pound containers; methyl salicylate, 85c. to 90c.; Rochelle salts, 64c. to 65c.; soluble saccharin, $3.10; soda benzoate, $1.10 to $1.15; tartaric acid, 76c.; theobromine, $9.75 to $10.75; theobromine sodiosalicylate, $4.50 to $4.85.

## *Magnus Recalled to Head N.Y. Board of Trade*

*—Continued from page 5*

nation's search for a way out of the morass of business depression.

In the present crisis, the New York Board of Trade once more turns to Mr. Magnus for leadership. Need for virile direction of business in its national aspects was never greater and when the draft hit Mr. Magnus, he welcomed the opportunity again to put personal considerations aside and accept the call to serve New York business and business men.

Mr. Magnus will continue his active management, as president, of the essential oil firm founded by his father.

**Norda Essential** Oil & Chemical Company, this city, has filed a certificate in the office of the Secretary of State, New York, increasing the number of shares of its non par value capital stock from 6,000 to 16,000 shares.

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# *Breaking* 'BOTANICAL BOTTLENECKS'

**Being the "world's largest botanical drug house" entails numerous responsibilities. Maintenance of a continuous supply of botanicals under adverse conditions is a major problem which must be met. When the war began creating a scarcity in various botanicals grown abroad, S. B. Penick & Company took up the challenge to meet customer needs.**

**For over two years, Penick botanists and horticulturists have spent much effort, time and money in trying to grow or find war-scarce botanicals in different parts of the United States and other parts of the Western Hemisphere. The going has not always been easy and the disappointments many. Yet the percentage of success has been encouraging. A nice list of botanicals, therefore, which might now be very scarce or unobtainable have found their way to Penick warehouses, ready for shipment to our customers.**

**Developing domestic botanical cultivation to ease foreign shortages and make this country less dependent on uncertain far away producers.**

**PENICK DELIVERS THE GOODS**

**Another method used by Penick to break "botanical bottlenecks" is by assiduous search for and development of new sources of supply. No wonder so many drug plant buyers turn to Penick as their "initial source of supply for botanical raw materials."**

## S. B. PENICK & COMPANY

**50 Church St., New York, N. Y. 735 W. Division St., Chicago, Ill.**

**THE WORLD'S LARGEST BOTANICAL DRUG HOUSE**



# MILK SUGAR
## (LACTOSE)

*Produced at Our Gustine, Cal., Plant*

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Best Prices

"When you think of MILK SUGAR, think of S-K-F"

LARGEST INDEPENDENT PRODUCERS

■

SMITH, KLINE & FRENCH LABORATORIES

Philadelphia, Pa.


### *Pyrophyllite Use Freed by F.T.C.*

*—Continued from page 5*

right to mine or sell the product. But the commission finds that the respondents sought to use the Sproat patents to control the pyrophyllite market and to secure a monopoly in its production and sale.

The respondents are ordered to cease and desist from representing that the Sproat patents, or any other patents owned or controlled by them, confer upon the respondents the exclusive right to use pyrophyllite in the manufacture of semivitreous earthenware bodies, or that the patents confer the exclusive right upon the respondents to sell or supply pyrophyllite to be used in the manufacture of semivitreous earthenware bodies; in any way threatening any person, firm or corporation with patent infringement or damage suit or other legal action, in bad faith, for the purpose of diverting the trade of any competitor to the respondents; licensing the use of the Sproat patent or any other patent owned or controlled by the respondents on the condition or understanding that the licensee shall purchase from the respondents or either of them the pyrophyllite used in the process covered by any of the patents, or that the licensee shall not purchase or procure from a competitor of the respondents the pyrophyllite used in the process covered by any of the patents; and from making any sale of pyrophyllite on the condition or understanding that the purchaser shall not use, in the manufacture of semivitreous earthenware, pyrophyllite purchased from or supplied by a competitor of the respondents.

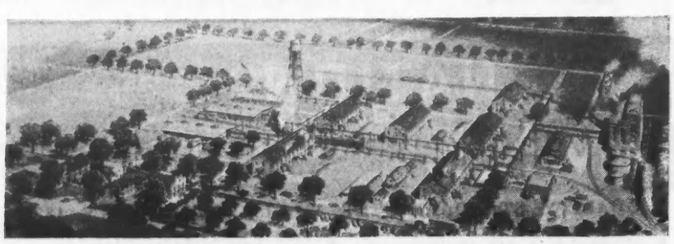
### Tombarel Products Moves

Tombarel Products Corporation, essential oils and aromatic chemicals, will move January 2 its offices and laboratories to 12 East Twenty-second street. Telephone:-GRamercy 7-4530.

### Monsanto Buys Property

Purchase by the Monsanto Chemical Company, St. Louis, of the Texas City Sugar Refinery for $450,000 has been approved by Federal District Judge J. C. Canty. The $6,500,000 refinery has been idle and in receivership for nearly ten years. The Monsanto Chemical Company plans to use the property for the production of synthetic rubber.

### Merck & Co. Starts Production at Virginia Plant



Pictured above is the architect's drawing of the Merck & Co., manufacturing chemists, Rahway, N. J., plant at Stonewall, near Elkton, Va., the first unit of which has been placed in production. Ground was broken for this plant, the principal production of which is vitamin B, on May 28, 1941. The entire plant is scheduled to be in operation May, 1942.

# Botanical Drugs, Spices, and Gums

**Saigon Cassias in Sharp Price Reversal—Market Gains Calmness Following Impact of Fighting War—Future Supply a Continuing Problem for Dealers**

The week, shortened by the Christmas holiday, proved less eventful than its two predecessors. Far fewer price changes developed. Some tendency toward downward reaction, following what had been almost a debauch of advances, was noted. But on the whole the basic picture of the market was unchanged.

The botanical drug market is faced with the problem of providing manufacturing consumers with some raw materials unobtainable from normal sources of supply. The labor done to that end last Summer resulted in a success possibly exceeding expectations of those who combed the world for new sources from which to secure botanicals formerly supplied by Europe.

But the problem remains a constant one, and not much more can be done at this time. To complicate the situation, since the United States became an active belligerent at the side of Great Britain, the movement of botanicals out of the Far East has become suddenly hazardous in the extreme and definitely uncertain as to success. From the Far East had come some botanicals formerly supplied by Europe. It now remains to be demonstrated that transport can be maintained.

The manufacturing consumer may rest assured that nothing will be too difficult to be attempted; no effort will be spared; no possible source of relief will be overlooked. The botanical drug dealers as a whole have their shoulders to the wheel and will not turn back.

## Balsams

Copaiba.—Firm. Tending toward stronger position.

Peru.—No surplus. Replacement slow and torturous.

## Barks

Barberry. — Practically unobtainable. Nothing abroad.

Black Haw. Strong, spot and country. Moderate supply.

Cinchona.—War finds excellent reserves here.

Elm.—Expected advance yet to come. Firm to firmer.

Sassafras.—Fully strong. Good demand ahead.

## Beans

St. Ignatius. Firm. Consumption good.

Vanilla.—Situation still acute. No change for important addition to unsold spot stocks. Future shipments from French Islands doubtful.

### *Pulsatilla Herb*

No one knows whence came the name "pulsatilla," an ugly sounding word compared with Pasque flower, Easter flower, Wind Flower, and Meadow Anemone by which it is also known.

Manufacturers paid $7 per pound, in January, 1917, for pulsatilla herb that sold for 30c. when World War No. 1 began in August, 1914.

The advance during World War No. 2 has been from 17c. in September, 1939, to the last current transaction at $1.10 per pound, following which the article disappeared from the spot market.

Poland and Czecho-Slovakia are the normal sources of supply. And, of course, it is impossible to import any from those countries even though some were available—which is doubtful.

Pulsatilla of a sort grows in the United States where it has also been called April-fool, Badger-weed, Gosling, Hartshorn plant, Headache plant, May-flower and Wild Crocus. Little was collected last Summer. Cultivation would be necessary if an adequate supply were to be secured.

### Price Changes

**Advanced**

Anise, Cyprus, 1c. per lb.
Turkish, 3c. per lb.
Cassia, China, select rolls, 4c. per lb.
broken extra select, 3c. per lb.
Fenugreek seed, 1c. per lb.
Fleaseed, Indian, 4c. per lb.
Gold of Pleasure seed, 1c. per lb.
Gum, Benzoin, Sumatra, 10c. per lb.
Mustard seed, Washington, yellow, ½c. per lb.
Nutmegs, E. I., W. I., grinding, 1c. per lb.
Paprika, Bulgarian, 2c. per lb.
Portuguese, 18½c. per lb.
Pepper, red, chillies, Mombassa, 2c. per lb.
Rapeseed, Indian, ½c. per lb.
Rhubarb root, whole, 5c. per lb.
powdered, 5c. per lb.
Sage, Spanish, 3c. per lb.

**Reduced**

Arrow root, ½c. per lb.
Celery seed, Indian, 1c. per lb.
Coriander seed, natural, 1c. per lb.
bleached, 1c. per lb.
Cumin seed, Indian, ¼c. per lb.
Cassia, shortstick, 1c. per lb.
Saigon, No. 1, 4-10-4, 13c. per lb.
10-6-2, 14c. per lb.
all thin, 11c. per lb.
Clove, Zanzibar, ¼c. per lb.
Hemp seed, 7c. per lb.
Pepper, black, Alleppey, ½c. per lb.
Savory, 35c. per lb.

### Comparative Values

Index numbers compiled from forty typical botanicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 317.8 | 317.8 | 311.5 | 231.4 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Berries

Buckthorn.—Last heard of in sales at $1.25 per pound.

Saw Palmetto.—Not very prominent in trade at present. Steady.

### *Imports and Detentions*

Entries of botanicals at the port of New York since the week of January 1, 1941, and the detention of these items by the Food and Drug Administration because of the presence of matter rendering them unfit for human consumption were:—

| | Bags Detained. | Bags Entered. |
|---|---|---|
| Anise | 310 | 5,281 |
| Belladonna | 142 | 207 |
| Caraway | 79 | 236 |
| Cardamom (cases) | 10 | 2,501 |
| Celery | 69 | 6,800 |
| Coriander | 17,813 | 18,729 |
| Cumin | 6,863 | 21,556 |
| Digitalis (cases) | ... | ... |
| Dill | 4,318 | 18,484 |
| Fennel | 210 | 3,504 |
| Henbane leaves (bales) | 332 | 399 |
| Mustard | ... | 10,017 |
| Poppy | 1,213 | 4,085 |
| Sage leaves (bales) | 1,912 | 2,882 |
| Sesame | 4,948 | 5,841 |
| Stramonium | 295 | 324 |
| Thyme | 2,451 | 8,674 |

**Current prices on botanical drugs and spices are given in the alphabetical list of prices beginning on page 7**

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SAVORY
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## Flowers

Arnica.—Trifling stocks available. Strong. Light call.

Chamomile.—Argentine supplying fair supplies. Steady.

Clover.—Dependence totally on limited domestic crop.

Pyrethrum.—Totally dependent on Kenya Colony flowers.

Saffron.—Limited stocks strongly held. Replacement problemtical.

## Gums

Arabic.—Whereabouts of ship next due not known. Future shipments from source highly uncertain. Sorts fetching upwards of 20c. per pound, prompt.

Camphor.—Japanese natural gum strongly held. No heavy demand. Need to expand domestic synthetic production very real.

Mastic.—Has sold at $3.25 per pound. Supposed to be controlled by order ceiling prices as of December 5 last. Trade asks: Whose, and what prices? Ours, or our competitors? OPA clarification needed.

Sandarac.—Situation precisely that in mastic.

## Herbs and Leaves

Buchu.—Transport from source to spot through submarine infested seas.

Henbane.—Holding strong. Apparently stabilized.

Henna.—Supplies plentiful here. Shortage may come eventually.

Senna.—Gains strength as transport problem gains.

Stramonium.—All probable needs provided. Argentina shipments large.

## Miscellaneous

Agaric.—None available. None asked for.

Ergot.—Future of shipments from Portugal in balance. Hitler may strike at North Africa through Spain and Portugal.

Lycopodium.—Probable strictly nominal. None on open market.

Nux Vomica.—Situation around replacements tight and taut. War raised problem of shipping space and safe transport.

Papain.—Still competitive. Much doubt about getting more goods from Far East.

## Roots

Cube.—Gains importance as derris source is cut by war.

Derris.—Future of shipments uncertain. Comes from heart of Far East war area.

Rhubarb.—Higher. Replacement shipments probably at end. Quotations:—No. 1, whole, 75c. to 80c. per pound; powder, 80c. to 85c.; No. 2, whole, 65c. to 70c.; powder, 70c. to 75c.

Squill.—Still in fair spot reserve. Arrival of red root from French Africa unlikely. Heavier call for white item.

## Seeds

Anise.—Cyprus seed up to 39c. to 41c. per pound; Turkish, 37c. to 38c.

Celery.—Indian reacts slightly to 59c. to 60c. per pound.

Coriander.—Shaded to 12½c. to 13c. per pound for natural; bleached, 13c. to 13½c.

Cumin.—Indian shaded to 16¾c. to 17¼c. per pound.

Fenugreek.—Higher at 10c. to 10½c. per pound.

Flea.—Indian higher at 15c. to 16c. per pound.

Gold of Pleasure.—Up to 21c. to 22c. per pound.

Hemp.—Inflated prices crash. Market down to 13c. to 13½c. per pound.

—*Continued on page 50*


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# Essential Oils, Aromatic Chemicals

**Badly Needed Respite Comes to War Battered Essential Oils and Aromatic Chemicals—Development of Substitutes a Growing Need—Markets Strong**

It was no surprise that the market for essential oils and aromatic chemicals fell into a calm during the past week. For two weeks, ever since Japan began to fight the United States, particularly in Far Eastern waters, the market had been taking a battering that could hardly be kept up much longer.

A period of "stocktaking," during which dealers, importers, agents and shippers alike could survey markets and strive for greater understanding of what had taken place and what must be expected in the future—this was to have been expected.

The fact is that never in the history of the essential oil and aromatic chemical trades has a year-end come with stocks so small and the outlook for renewal of supplies being so poor. Substitutes are bound to play more and more a highly important role in trade, and those whose laboratories bring out successful substitutes stand in the way of not only being of tremendous service to manufacturing consumers, but also of acquiring a profitable return on their efforts.

Self-interest is not being entirely neglected, but the extent to which it is present is far less than it has been in times of previous crisis. Today there is a real desire to serve for the sake of service. Such almost disinterested service will be needed for a long time to come.

### Price Changes

**Advanced**

None.

**Reduced**

None.

### Comparative Values

Index numbers compiled from twenty typical essential oils on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 278.5 | 278.5 | 239.4 | 161.3 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Essential Oils

Almond.—Strong and likely to go higher. Reserves small.

Amber.—Still unobtainable on spot.

Anise.—All connection cut with primary market. All sellers practically withdrawn from market. No open offerings made.

Avocado.—Reasonably active and very firm. Little competition. Fair stocks.

Bay.—Holding firm at all points. Current demand unimportant. Outlook reasonably good.

Bois de Rose.—Nothing available spot under $4.50 per pound. Strong, hard prices at source. Offerings limited.

Cajeput.—Impossible to bring goods forward from primary market. Local quotations virtually nominal. Stocks small.

Camphor.—All replacements stopped months ago. Primary market cut off for duration. Local stocks small. Strongly held. Tendency upward.

Capsicum (Oleoresin).—Strong. Raw material costs mounting. Demand good.

Caraway. — Almost unabtainable. Will disappear totally before war is won.

Cardamom.—Sturdy, strong, and scarce at any price.

Cassia.—Situation regarding further imports hopeless. Japanese success at Hong Kong closes export point for time at least. New routes out of China may be found.

Cedarleaf. — Firm and fairly active within seasonal limits.

Citronella. — War makes a position of spot oil stronger. Not too much oil unsold in dealer's hands. Future of supplies drab.

Clove.—Strong undertones and undersupply accompany prices with rising tendency.

Coriander. — Token stocks available. Most dealers here cleared supplies entirely.

Dill.—Oil from India a problem hinged on the war. Domestic production in Pacific northwest highly valuable for next year.

Eucalyptus. — Strong undertones accompanied by sustained demand.

Geranium. — Limited stocks sufficient to establish a purely nominal spot position for the item.

Grapefruit. — New production in Florida expected to come on firm to stronger market.

Lemon. — Uruguay oil finding market. Quality approved by new users. Domestic California oil backbone of stocks to care for home requirements.

Lemongrass.—Growing scarce without hope of replacement arrivals at early date.

Lime.—No improvement in supply. Britain will take practically total Jamaica production.

Peppermint. — New developments lacking. Advance slowed down. Movement has lacked major support from major buyers. Country prices maintained well.

Spearmint. — Undertones firm and unyielding. Prices maintained with little trouble. No competition worthy of the name.

### *Sandalwood Oil*

Transport of sandalwood from India to the United States is likely to be irregular and uncertain now that this country is at war with Japan. Most of the sandalwood oil used in the United States is distilled here from sandalwood billets imported from India and the high seas over which it passes are now infested with Japanese submarines.

Producers have apparently laid in a fair supply of the wood against just such an emergency. Between January and September, 1941, almost 1,000,000 pounds of wood was imported which compares with 583,000 pounds brought in 1939. British India supplied 581,000 pounds of the wood imported in 1939.

Prices have been remarkably stable since the war began in September, 1939. The market then was $4.50 per pound and today it is $5.85. In World War No. 1, the advance was severe. On August 1, 1914, the market was $4.65 per pound and by January, 1918, it had reached $13.50.

## Aromatic Chemicals

Anethol.—To climb high as stocks shrink and are not replaced.

Anisic Aldehyde.—Demand up despite usually slow season.

Benzaldehyde.—No question regarding strength. Raw material costs advanced officially.

Benzyl Compounds.—Raw material prices up officially. No increase in raw material available. Generally strong, under-supplied markets.

Cinnamic Alcohol.—Future hardly encouraging as regards supply.

Cinnamic Aldehyde.—Output cannot be increased much. Need exceeds supply.

Citral.—Demand lagging. Welcomed by most sellers. Supply totally inadequate.

Citronellal.—Demand holds up well despite season. Only small lots available for prompt delivery.

Citronellol.—Available only in hand-to-mouth quantities. No relief likely.

Diphenyl Oxide.—Demand in line with lulls at most year-ends. Very well stabilized.

Methyl Anthranilate.—Firm. Not too well supplied for prompt delivery.

Phenylacetic Acid.—Small stocks make lessened demand welcome. Values exceptionally firm.

Vanillin.—Outlook suggests enlarged needs during 1942.

**Current prices on essential oils and aromatic chemicals are given in the alphabetical list of prices beginning on page 7**

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## Botanical Drugs

### Seeds

—*Continued from page* 48

Mustard.—Washington yellow up to 7½c. to 8c. per pound.

Rape.—Indian seed rises to 7¾c. to 8¼c. per pound.

### Spices

Cassia.—Batavia shortstick up to 33c. to 34c. per pound. China goods stronger. Market:—China, buds, 32c. to 34c. per pound; selected rolls, 32c. to 33c.; broken rolls, extra select, 30c. to 31c. Saigon advance overdone. Prices relax to:—No. 1, 4-10-4, 62c. to 64c.; 10-6-2, 63c. to 64c.; all thin, 68c. to 69c.

Clove.—Zanzibar shaded to 18¼c. to 18¾c. per pound.

Ginger. — Practically no Jamaica available. Went to London.

Mace. — Banda advance went too far. Market down to 56c. to 57c. per pound.

Nutmeg.—Higher at 21c. to 22c. per pound, small E. I. grinding; West Indian, 21c. to 22c.

Paprika. — Fair Bulgarian higher at 28c. to 29c. per pound. New crop, extra fancy Portuguese, sharply advanced to 54c. to 55c.; good, 32c. to 33c.

Pepper.—Black, Alleppy, 8½c. to 9c. per pound; Lampong, 6¾c. to 7c. Red, Mombassa chillies, higher at 27c. to 28c.

Trading in black pepper futures on the New York Produce Exchange from December 20 to December 26, inclusive, comprised 39 contracts. Following is a price record for the week:—

| | Cents per pound | | |
|---|---|---|---|
| | High. | Low. | Close. |
| March | 6.22 | 6.13 | 6.18@ 6.23 |
| May | 6.25 | 6.18 | 6.23@ 6.27 |
| July | 6.25 | 6.25 | 6.30@ 6.32 |
| September | 6.43 | 6.38 | 6.40@ 6.44 |

Pimento.—Not much available spot. Jamaica sent bulk to London.

## Peppermint Oil Crop Up 60,000 Pounds in 1941

The strong market for peppermint oil, emphasized by the steady advances in primary and spot market prices over the last several weeks, attracts wide interest to the annual crop report covering production, acreage, and yield per acre compiled by Department of Agriculture and issued by the Agricultural Marketing Service on December 18.

Production in the 1941 season totaled 60,000 pounds more than in 1940. Acreage under cultivation increased 1,480 acres and the yield per acre was 0.4 per pound greater.

Value of sales in the marketing season, or crop year, was $3,185,000 in 1941, compared with $2,180,000 for the corresponding period in 1940.

Detailed statistical data are as follows:—

| | Pounds | |
|---|---|---|
| Production. | 1941. | 1940. |
| Indiana | 546,000 | 396,000 |
| Michigan | 312,000 | 437,000 |
| Ohio | 4,000 | 3,000 |
| California | 24,000 | 40,000 |
| Oregon | 120,000 | 100,000 |
| Washington | 74,000 | 44,000 |
| Totals | 1,080,000 | 1,020,000 |
| | Acres | |
| Acreage. | 1941. | 1940. |
| Indiana | 15,600 | 12,000 |
| Michigan | 12,500 | 15,600 |
| Ohio | 140 | 90 |
| California | 900 | 810 |
| Oregon | 2,800 | 2,500 |
| Washington | 1,540 | 1,000 |
| Totals | 33,480 | 32,000 |
| | Pounds, per acre | |
| Yield. | 1941. | 1940. |
| Indiana | 35 | 33 |
| Michigan | 25 | 28 |
| Ohio | 30 | 35 |
| California | 27 | 50 |
| Oregon | 43 | 40 |
| Washington | 48 | 44 |

## Fritzsche Bros. Hold Annual Dinner-Dance

Two hundred and ninety-five employees of Fritzsche Brothers, Inc., essential oils and aromatics, this city, dined together in the grand ball room of the Hotel New Yorker December 13. A dinner-dance has been an annual affair for some twenty-five years and the gathering at the company-sponsored event this year was the largest ever.

F. H. Leonhardt, president, welcomed the Fritzsche workers following the singing of the Star Spangled Banner. His words were appropriately few but heartfelt and warm, as also were those of W. A. R. Welcks, vice-president and treasurer.

Inspection of the new and larger manufacturing facilities at Clifton, N. J., occupied the sales staff and a number of the New York personnel earlier in the day. On the day previous a short business meeting was addressed by Mr. Leonhardt, George L. Ringel, John H. Montgomery, and H. P. Wessman who talked on topics pertinent to the war and the world supply situation.

Fritzsche Brothers is this year marking the seventieth anniversary of its foundation in 1871.

# Petroleum Products

**Petroleum Industry Moves Toward Peak Production—Development and Expansion Needs Stressed—Refined Products In Heavy Demand—Further Restrictions Looked for in 1942**

Despite the short week occasioned by the Christmas holiday there was no break in the stride of the petroleum industry as it headed toward peak production for the all-out war effort. Government officials and spokesmen for the trade continued to stress the importance of expansion and development of known resources and discovery of new means of output.

There was little change in the market for industrial petroleum products during the week. The demand for various solvents, naphthas, and lighter fractions remained very heavy, with suppliers pressed to accommodate all orders. Crude scale paraffin was very tight, with little indication of an easing in the situation. Petrolatums and white mineral oils were firm and unchanged.

Producers and refiners were looking toward 1942, and were in constant touch with Washington in order to keep up with latest developments. Although no official word had been received, allocation of most materials next year would not be unexpected. In any event further restrictions by the OPM and the OPA were looked for.

### Price Changes

**Advanced**

None.

**Reduced**

None.

### Comparative Values

Index numbers compiled from

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|

Market news that may have developed after this report was sent to press will be found on page 4.

## Solvents and Diluents

Aromatic Naphthas.—Heavy demand. Very scarce. Prices steady.

Cleaners' Naphtha.—Normal movement reported. Buying on large scale. Prices firm.

Lacquer Diluent.—Continued tightness reported in the market. Consumers bidding actively but material was scarce. Prices firm.

Mineral Spirits.—Paint manufacturers ordering in good volume. No change in quotations.

Rubber Solvent.—No let-up in demand. Shipments extensive. Prices steady.

Stoddard Solvent.—Good call. No changes in prices.

V. M. & P. Naphtha.—Paint makers ordering out large quantities of this ingredient. Inquiries active. Prices firm.

### Markets at Other Centers

**Chicago—Dec. 26**

Generally strong and firm market conditions prevail. Offerings are light.

Aromatic Naphthas.—Supplies limited, prices strong.

Cleaners' Naphtha.—Offerings few, no change in price.

Lacquer Diluent.—Buying good, prices unaltered.

Mineral Spirits.—Inquiries steady, market holding.

Rubber Solvent.—Steady orders, quotations unchanged.

V. M. & P. Naphtha.—Steady call, no price change.

**New Orleans—Dec. 26**

Domestic market conditions on cleaning solvent and V. M. & P. naphtha continued unchanged during the past week. As reported last week, changes are being made which will permit the use of cleaning solvents in lieu of carbon tetrachloride in special cleaning processes.

Cleaning Solvent.—Normal demand; price steady.

V. M. & P. Naphtha.—Market routine; no change in price.

**San Francisco—Dec. 26**

Little of new feature to report. Prices have not changed. Offerings fair.

Aromatic Naphthas.—Demand heavy.

Petroleum Thinners.—Demand good. Prices steady.

Lacquer Diluent.—Production moving steadily into consumers' hands.

V. M. & P. Naphthas.—Active and firm.

Rubber Solvent.—Good call. No price changes.

**Tulsa—Dec. 26**

Interest in specialties continues to turn to future buying for the first quarter. There is considerable interest on the part of paint manufacturers and tire makers.

Cleaners' Naphtha.—Heavy demand; prices strong.

Stoddard Solvent.—Good movement, prices steady.

V. M. & P. Naphtha.—Heavy orders; prices firm.

Mineral Spirits.—Good bidding; quotations unchanged.

Lacquer Diluent.—Market quiet; prices firm.

Rubber Solvent.—Good inquiries; prices steady.

## Lighter Fractions

Butane.—Continued good call reported. Little material available for spot. Market very tight. Prices firm.

Heptane.—Demand continued to broaden. Quotations unaltered.

Hexane.—Extensive buying interest reported. Ordering heavy. Prices steady.

Octanes.—Market improved further. Price unchanged.

Pentanes.—Little of new interest. Demand, offerings, prices at same levels.

Propane.—Very scarce. Heavy demand. Prices firm.

### Markets at Other Centers

**Chicago—Dec. 26**

Generally strong and tight market conditions continue to prevail.

Butane.—Limited supply, strong prices.

Heptane.—Call active, prices holding.

Hexane.—Good demand, market stiff.

Octanes.—Trade fair, quotations steady.

Pentanes.—Good buying, prices firm.

Propane.—Limited supplies, no price change.

**Tulsa—Dec. 26**

Tightness in light fractions is causing difficulty in trading.

Butane.—Good call; prices strong.

Propane.—Few offerings; quotations firm.

Pentane.—Heavy buying; prices unchanged.

## Petrolatums and Waxes

Paraffin.—Crude scale material remained in very heavy demand with offerings virtually negligible. Small amounts were in producers' hands, but they were evidencing unwillingness to accept current bids. Prices were firm and unchanged. Refined grades were moving in satisfactory manner with tone stable.

Petrolatums.—Demand fairly well sustained, with offerings curtailed by tightness. Prices steady.

White Mineral Oils.—Good movement reported. Heavy demand, with offerings limited. Prices steady.

### Markets at Other Centers

**Chicago—Dec. 26**

The general market is firm, with paraffin in good call at stated price levels.

Paraffin.—Demand good, prices steady.

Petrolatum.—Active call, no price change.

White Mineral Oils.—Buying steady.

**Tulsa—Dec. 26**

Quietness prevails in paraffin and petrolatum markets.

Paraffin.—Trading quiet; prices firm.

Petrolatum.—Limited trading; prices strong.

## Fuels and Lubricants

Gasoline.—Demand tapering. Prices steady.

Kerosene.—Routine movement. Tone stable.

Lubricating Oils.—Pennsylvania grades in good demand at unchanged prices.

### Markets at Other Centers

**Chicago—Dec. 26**

Demand holding despite seasonal considerations.

Gasoline.—Good call, prices holding.

Lubricating Oils.—Movement brisk, prices firm.

**New Orleans—Dec. 26**

Gasoline and kerosene moved along routine lines during the week, quotations continuing steady.

Gasoline.—Normal demand; prices unchanged.

Kerosene.—Demand fair; no change in price.

**Tulsa—Dec. 26**

Urgent orders were received throughout the Midcontinent markets and shipments have increased.

Gasoline.—Heavy demand; prices steady.

Lubricants.—Heavy call; prices firm.

## *Aviation Gasoline*

The government's program to treble the output of 100-octane gasoline for fighting planes was given a tremendous boost last week when Petroleum Co-ordinator Harold L. Ickes announced that a group of oil companies owning patents on the processes of manufacturing this fuel had agreed to reduce their royalties by 50 per cent, thus enabling a greater number of refiners to participate in its production.

By the terms of the agreement, royalties are to be cut from 42 to 21 cents per barrel, the rate to be effective until July 1, 1943, at which time royalty price will be lowered further to 15 cents per barrel.

The companies agreeing to the reduction are: The Texaco Development Corporation; Shell Development Company; Standard Oil Development Company; Anglo-Iranian Oil Company, Ltd., of England, and Universal Oil Products Company.

## *Oil Pipeline Companies Held to 7% Profit*

—*Continued from page* 3

1. No defendant common carrier may pay, directly or indirectly, to any shipper-owner in any calendar year (commencing January 1, 1942) any earnings derived from transportation or other common carrier service which, in the aggregate, are in excess of its 7 percent share of the Interstate Commerce Commission's valuation of the common carrier's property, if the common carrier has transported any commodities for such shipper-owner during the calendar year.

2. No shipper-owner may receive, directly or indirectly through any device whatsoever, any payment in excess of the 7 percent which the carrier-pipeline may legally pay.

3. Net earnings of the common carrier pipelines in excess of the 7 percent permitted to be paid to their stockholders shall be transferred to a special surplus account and used only for the extension of existing, or construction or acquisition of, common carrier facilities, for normal and reasonable working capital requirements, or for the retirement of any outstanding debt originally incurred for the purpose of, and the proceeds of which were expended in, construction or acquisition of common carrier property.

4. Any excess funds withdrawn from the special surplus account and used for new pipeline construction or the extension of old lines may not be included in valuations of common carrier properties upon which the 7 percent rate is permitted.

5. The United States may recover, in this action, from any recipient three times the amount of any sums received in violation of this judgment.

6. Annual reports, containing information which will permit the Government to ascertain whether the judgment is being obeyed, shall be made by each common carrier pipeline to the Attorney General of the United States.

### Texas Oil Land Leased

The Texas Company has leased thirty-five of the 110 sections of the John E. Mabee ranch 19 miles north of Midland, Tex., paying a bonus in excess of $1,000,000 for the lease. It is one of the biggest oil land deals this year. The lease was concluded after the Texas Company spent in excess of $500,000 in geophysical and geological surveys. It has an oil well located a half-mile west of the Mabee ranch.

Mr. Mabee retains one-eighth royalty in the thirty-five sections leased and he will be the drilling contractor for Texas in development of the lease. He is free to develop the remaining seventy-five sections as he elects.

### Phillips Petroleum to Build

Phillips Petroleum Company, Bartlesville, Okla., will spend $3,500,000 for the erection of aviation gasoline plants at Oklahoma City and Borger, Tex., with a daily output of 2,872 barrels.

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30 ROCKEFELLER PLAZA, NEW YORK, N. Y.

TECHNICAL
WHITE OILS
OIL STATES PETROLEUM CO., INC. Woolworth Bldg., New York
Plant: Bayonne, N.J.

**Current prices on petroleum and its products are given in the alphabetical list of prices beginning on page 7**

# Industrial Uses of Chemicals and Related Materials

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*(Parenthetical figures are the numbers of patents in the United States or other countries, as designated)*

### 4:4'-Bis-(para-anilinesulphonamido)diphenylsulphone

**Pharmaceutical**

Claimed (Brit. 502173) to be—
Therapeutically valuable for treating bacterial infectious diseases

### Butyl Beta-2-furylacrylate

**Rubber**

Starting point (Brit. 516776) in making—
Polymerized products with—
Ethylene
Methyl derivatives of ethylene
Starting point (Brit. 516776) in making—
Polymerized products (latex) which can be coagulated to rubberlike material (said products are claimed to be compoundable and vulcanizable, to have better resistance than natural rubber to oils and solvents, to be tough and resilient)

### 4-Chlor-5-acetoacetamido-1-phenylbenzothiazole

**Dye**

Claimed (Brit. 516851) as—
Dye group member giving shades ranging from greenish-yellow to orange and having great affinity for cotton

### 10-Chlor-7-ethoxy-3-butoxyacridin

**Pharmaceutical**

Claimed (Brit. 363392, 441007, and 441132) as—
New pharmaceutical agent

### Cresol Sulphide

**Rubber**

Stabilizer (Brit. 488866) for—
Synthetic rubberlike materials such as—
Polymers of butadiene, 2-chlorobutadiene, dimethylbutadiene, isoprene
Joint polymers of the foregoing substances with acrylic nitrile, styrene, other polymerizable substances

### Diketene

**(Betacrotonolactone, Vinylacetobetalactone)**

**Chemical**

New industrial chemical offering—
Exceptional chemical reactivity
Exothermic effects in certain synthetic reactions
Higher yields and purer products in certain synthetic reactions
Reduced reaction times in certain synthetic reactions
Reactant in making—
Acetoacetamides such is acetoacetanilide with amine groups
Acetoacetic esters such as ethyl acetoacetate with hydroxyl groups
1:3-Diketones such as benzoylacetone with aromatic hydrocarbons
Gammahaloacetoacetyl halides with halogens
4-Methyluracils with ureas
Phenylmethylpyrazolones with phenyl hydrazins
Starting point in making—
Betabutyrolactone by hydrogenation
Dehydroacetic acid by polymerization
Ketene by pyrolysis

### Ethyleneglycol Linoleic Acid-Ester

**Lubricant**

Starting point (Brit. 484964) in making—
Polymerized viscous products suitable for lubricants or for adding to lubricants

### Gluconic Acid

**(Acide Gluconique, Glukonsaure)**

*(Additional uses—supplementary to information in the book, Uses and Applications of Chemicals and Related Materials—see bottom of this page)*

**Leather**

Reported promising as tanning agent in—
Vegetable tanning processes

**Laundering**

Souring agent

**Miscellaneous**

Ingredient of—
Metal polishes

### 2-Hydroxy-2'-paratolyl-5:6-psinaphthazimide

**Dye**

Claimed (Brit. 516585) as—
Dyestuff having a high affinity for cellulosic fibers

### 1-Imino-2-methylbenzothiazole

**Chemical**

Reactant in—
Organic syntheses

**Photographic**

Starting point (Brit. 517197) in making—
Color-forming agents for photographic emulsions or for photographic developing processes

### 2-Methyl-2-nitro-1:3-propanediol Dinitrate

**Explosives**

Reported valuable as high explosive

### 2-Para-aminobenzenesulphonamido-4-phenylthiazole

**Pharmaceutical**

Claimed (Brit. 517272) as—
Therapeutically useful new compound

### Star Anise Oil

**(Aceite de Badiana, Aceite de Semilla de Anis .Estrellado, .Badianoel, .Chinese Aniseed Oil, Huile d'Anis de Chine, Huile d'Anis Etoile, Huile d'Anis de Siberie, Huile de Badiane, Huile Volatile d'Anis, Indian Anise Oil, Oil of Star Aniseed, Oleum Badiani, Oleum Fructus Anisi Stellati, Oleum Illicii, Oleum Semen Badiani, Olio di Anice Stellata, Olio di Badiana, Sternanisoel)**

*(A volatile oil distilled from the ripe fruit of Illicium verum Hooker filius . (Fam. Magnoliaceae)—Japanese star anise oil is reported to be obtained from the leaves instead of from the fruit—there is said to be no known chemical differences between star anise oil and anise oil, but dealers claim to be able to distinguish between them by their odor and taste)*

**Cellulose Products**

Ingredient (U. S. 1199800 and 1388472) of—
Cellulose acetate solvent
Plasticizer (U. S. 1388472) for—
Cellulose acetate

**Cosmetic**

Flavoring agent (U. S. 1488097) for—
Dentifrice

**Distilled Beverages**

Flavoring agent for—
Cordials and liqueurs
Ingredient of—
Flavoring agents

**Exterminant**

Flavoring agent (U. S. 1507029) in—
Rat poison

**Firefighting**

Ingredient (U. S. 1270395) of—
Carbon tetrachloride fire-extinguisher

**Food**

Flavoring agent for—
Candy, cakes, and the like
Coffee substitute (U. S. 1519789)
Licorice substitute (U. S. 1519789)

**Insecticide**

Vermicide for—
Body vermin

**Miscellaneous**

Flavoring agent for various products

**Pharmaceutical**

Flavoring agent (U. S. 1375154) in—
Epsom salt preparation
Flavoring agent in compounding and dispensing practice
Reputed useful in—
Colic
Reputed useful as—
Expectorant

**Photographic**

Ingredient (U. S. 1199800 and 1388472) of—
Solvent for photographic film

**Textile**

Ingredient (U. S. 1164037) of—
Printing composition for fabrics

**Veterinary**

Ingredient (U. S. 1470795) of—
Preparation for treating contagious abortion in cows

### Sulphoguanidin

**Pharmaceutical**

Claimed (U.S. 2218490) as—
Efficacious agent against infections, such as bacillary dysentery

### 1:2:3-Triazole of 3:4-Diaminodiphenyl

**Dye**

Starting point (Brit. 506761) in making—
Brown vat dyes with the aid of—
1:2-Naphthoquinones which are unsubstituted in the quinonoid nucleus
1:2-Naphthoquinones having in 4-position a sulphonic acid radicle and being unsubstituted in 3-position
1:4-Naphthoquinones which are unsubstituted in the quinonoid nucleus

### Tri-isopropanolamine Oleate

**Chemical**

Suggested as dispersing agent in making—
Emulsions of various chemicals
Textile lubricants in emulsified form.

**Cosmetic**

Suggested as dispersing agent in making—
Emulsified cosmetics

**Fats, Oils, and Waxes**

Claimed to be—
Powerful emulsifier for—
Fats Waxes
Oils
Slightly superior as an emulsifying agent to the corresponding triethanolamine salt

Suggested as dispersing agent in making—
Emulsified boring oils
Emulsified drilling oils
Emulsified fat-splitting preparations
Emulsified fatty acids of animal or vegetable origin
Emulsified greasing compositions
Emulsified greasing and lubricating composition containing various vegetable and animal fats and oils
Emulsified preparations of natural or synthetic waxes
Emulsified sulphonated oils
Emulsified wire-drawing oils
Emulsions of animal and vegetable fats and oils

**Leather**

Suggested as dispersing agent in making—
Emulsified compositions for softening hides
Emulsifier dressing compositions
Emulsified fat-liquoring baths
Emulsified finishing compositions
Emulsified soaking compositions
Emulsified waterproofing compositions

**Miscellaneous**

Suggested as dispersing agent in making—
Automobile polishes in emulsified form
**Emulsified furniture polishes**
Emulsified greasing compositions
Waterproofing compositions in emulsified form

**Paint, Varnish and Lacquer**

Suggested as dispersing agent in making—
Waterproofing compositions in emulsified form

**Paper**

Suggested as dispersing agent in making—
Emulsified compositions for sizing paper and pulp articles
Emulsified compositions for waterproofing paper and pulp compositions and paperboard
Waxing compositions in emulsified form

**Petroleum**

Suggested as dispersing agent in making—
Emulsified mineral oils
Kerosene emulsions
Naphtha emulsions
Soluble greases in emulsified form
Solublized emulsified oils and distillates
Various textile oils in emulsified form, such as rayon oils

**Soap**

Suggested as dispersing agent in making—
Emulsified detergents, containing soaps, used for various purposes
Emulsified hand-cleansing compositions containing soap
Emulsified textile soaps

**Textile**

**Finishing**

Suggested as dispersing agent in making—
Emulsified coating compositions
Emulsified sizing compositions
Emulsified washing compositions
Emulsified waterproofing compositions
Emulsified waxing compositions

**Manufacturing**

Suggested as dispersing agent in making—
Emulsified baths for degumming and boiling-off silks
Emulsified baths for soaking silks
Emulsified compositions used for degreasing raw wool
Oiling emulsions for various textile purposes

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# Fertilizer Materials

**Nitrate of Soda Delivery Subject to OPM Approval—Fertilizer Chemicals Remain Scarce and in Heavy Demand—Superphosphate 1942 Needs Discussed—Organics Active**

The principal factors in the sale of nitrate of soda in the United States reported last week that domestic deliveries were being made only with the sanction of the Office of Production Management. At the suggestion of the OPM all sales and deliveries are approved by that government agency before shipment is made. Prices on the imported material have been extended through January.

The situation in other chemical products was little changed last week. There was a heavy demand for most products, with scarcity the rule rather than the exception. Included were sulphate of ammonia, potashes, ammonia phosphate, cyanamid, urea and manganese sulphate. The subcommittee on superphosphate and sulphuric acid of the Fertilizer Industry Consulting Committee met last week with representatives of the OPM, the Office of Price Administration and the Department of Agriculture to discuss requirements and available and prospective supplies for 1942. Conclusions reached at the meeting will be made public in the near future.

The organics end of the market was fairly active. Bone materials were a bit weaker and a reduction in one grade was reported at Chicago. Blood was in fairly good call, with prices steady. Tankage was active and high-grade feeding material was raised in the Midwest.

## Nitrogenates

Ammonia Phosphate.—Fair demand. Little offered.

Anhydrous Ammonia.—Tone stable. Sales curtailed.

Calcium Nitrate.—None available. Prices withdrawn.

Castor Pomace.—Market slower. Inquiries off. Prices steady.

Cyanamid.—Little available. Sales restricted.

Dried Blood.—Good demand continued. Shipments fairly heavy. Prices steady.

Fish Scrap.—Movement of meal fairly large. Demand well maintained. Prices steady and unrevised.

Hoofmeal.—Fair demand. Price unchanged.

Nitrate of Soda.—Deliveries being made with approval of OPM. Demand heavy. Prices firm.

Nitrogenous Material.—Good call. Prices unrevised.

Sulphate of Ammonia.—Demand large. Prices unchanged. Very tight. Little available.

Tankage.—High-grade feeding material advanced 25c. per unit at Chicago to $5.25 and 10c. Demand good.

## Potashes

Movement of potash salts was slower last week. Mixers were less active due to the holiday. There was the customary tightness in the market which further restricted activity. Prices were firm and unrevised.

### *Superphosphate*

The serious situation that has developed in the superphosphate industry and the outlook for 1942 were the topics of discussion last week at a conference of industry and government officials.

Demand for this important fertilizer has been too great for available supply this year. Primary reasons for this is the inability of the industry to expand fast enough to meet the greatly broadened demand, and the realization of many producers that sulphuric acid is more profitable when sold outright than when used to acidulate phosphate rock.

At present the outlook for the future is somewhat clouded, with the industry and government striving to work out an adequate program. With the anticipated increase in farm production, further expansion of superphosphate demand is to be expected. How this situation will be met will be decided after further conference in Washington.

### Price Changes

**Advanced**

None.

**Reduced**

Bone, dom., steamed, 3-50%, $1 per ton, f.o.b. Chi.

### Comparative Values

Index numbers compiled from four typical fertilizer materials, on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 70.6 | 70.6 | 70.6 | 67.3 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Phosphates

Bone Materials.—Steamed 3 and 50 meal reduced $1 per ton at Chicago to a range of $38 to $39. Other grades unchanged. Demand good.

Phosphate Rock.—Good call. Prices steady.

Superphosphate.—Very tight. Demand heavy. Prices firm.

## Sulphur

No new developments reported. Buying was a bit slower during the week and tonnage shipped into consumption was smaller. Year-end lull was in evidence. Prices firm and unchanged.

## Markets at Other Centers

**Atlanta—Dec. 26**

The fertilizer material market is taking a holiday. Buying interest is almost lacking this week. Prices on leading materials show very little change.

Superphosphate.—61½c. per unit, interior points.

Nitrate of Soda.—Scarce; spot market unchanged.

Sulphate of Ammonia.—$29 per ton, ports. Market tight.

Cottonseed Meal.—8% grade $39.50 to $40 per ton, Southeast.

Blood.—$4.50 per unit, Chicago.

**Baltimore—Dec. 26**

As was to be expected, activity in crude fertilizer materials diminished over the week, and trading is not likely to be resumed in volume until after the holidays.

Fish Scrap.—The sale of 100 tons of this ammoniate carried over from last season at $4.75 and 10 per unit-ton is reported on a f.o.b. at factory basis.

Superphosphate.—Price changes on this material are lacking, with the quotations of $9.50 per ton for run-of-pile, $10 for 16 percent milled and screened stocks, and 20 percent supplies at $12.

Tankage.—The market for this ammoniate is well sold up, but a little 10 to 11 percent unground material can be obtained at $4.75 and 10c. per unit-ton.

Dried Blood.—There is not much change in the market for this ammoniate. An offer of a limited quantity at $4.75 per unit-ton is reported, but buyers seem to be absent.

Bone.—Brokers report that they are without quotations, with only the nominal figures of 4½ and 50 ground raw stocks at $40 to $41 per ton, f.o.b warehouse in bags.

**Chicago, Dec. 26**

The fertilizer materials market continues strong, with values at relatively high levels. Inquiry has been better. Blood has been attracting considerable new interest. Bone materials have enjoyed improved call, with some buyers taking larger quantities. Tankage business remains fairly good.

Blood.—Principal grade, $5 per unit of ammonia.

Tankage.—High grade, $5.25 and 10c.; hoof meal, $3 to $3.10; liquid stick, $2 to $2.25.

Bone Materials.—Ground, steamed bone, 1¼ and 60 percent, $40 to $41; 3 and 50 percent, $38 to $39; 4½ and 50 percent, $39 to $40; grinding hoofs, pigs' toes and waste horn materials, $4 to $45; cattle jaws, skulls and knuckles, $40 to $42.50; pork cracklings, soft pressed, $55 to $57.50; beef cracklings, soft pressed, $52.50 to $55; hard pressed cracklings, per unit of protein, $1 to $1.05.

**San Francisco—Dec. 26**

There are no first-hand offerings of sulphate of ammonia or ammonia phosphate. Nitrate of soda is under a delivery restriction arrangement. Fish meal is higher.

Nitrate of Soda—Deliveries subject to clearance through OPM.

Fish Meal—Quoted at $70 per ton, San Francisco.

Tankage—Market slow. Firm.

**Kenneth D. Morrison** of the Union Potash and Chemical Corp., Chicago, has moved his family from Baltimore to 109 Lee Road, Garden City, L. I.

Current prices on fertilizer materials are given in the alphabetical list of prices beginning on page 7

## *U. S.—Cuban Trade Pact Signed*

*—Continued from page 4*

and accordingly, the tariff reductions contained therein are not extended by either country to third countries.

Summary analysis of concessions obtained on United States products imported into Cuba include the following:—

| | Rate of Duty in Cuban Pesos*—Prior to present supplementary agreement. | Present supplementary agreement. |
|---|---|---|
| Asphalt cements and putties for roofs and water-proofing in general, kilogram | 0.033 | 0.018 |
| Pills, including those of quinine, capsules, medicinal lozenges and similar articles, when constituting pharmaceutical specialties, kilogram | 0.14 | 0.14 |
| Crude or impure soybean oil (concession consists in reducing from 1.0% to 0.5% the minimum amount of free fatty acids in soybean oil to secure customs classification as a crude or impure oil dutiable under item 101-A at the rate of 1.95 pesos per 100 kilograms and to avoid classification as a refined oil dutiable at 3.01 pesos per 100 kilograms) | ... | ... |
| Starch and other industrial feculas, 100 kilograms | 6.00 | 3.64 |
| Glucose for industrial uses, 100 kilograms | 1.50 | 1.20 |
| Insulating materials for construction purposes, of rock or mineral wool or hair felt | 24.5% to 27% ad val. | 14% ad val. |
| Cellulose tubes, sausage casings and bottle capsules and bands, kilogram | 0.48 | 0.07 + 30% duty surcharge |
| Paperboard or pasteboard manufactured on a base of mechanical wood pulp in combination with bisulphite pulp, 100 kilograms | 1.95 | 1.625 |
| Tapioca, starch of potato, of peas, of rice and other pastes and feculas for food purposes, 100 kilograms | 6.00 | 6.00 |
| Edible starch and fecula of corn imported in any form, 100 kilograms | 6.00 | 3.64 |

* The Cuban peso is approximately equal in value to the United States dollar.

### Concessions on Cuban Products

| | Rate of duty—Prior to present supplementary agreement. | Present supplementary agreement. | Ad valorem equivalent on basis of 1940 imports—Prior to present supplementary agreement. (Percent) | Present supplementary agreement. (Percent) |
|---|---|---|---|---|
| Medicinal preparations of animal origin | 20% ad val. | 10% ad val. | 20 | 10 |
| Drugs of animal origin | 8% ad val. | 4% ad val. | 8 | 4 |
| Marble chip or granite | 24% ad val. | 12% ad val. | 24 | 12 |

Source: Tabulation by United States Tariff Commission based upon the official statistics of the United States Department of Commerce.

### Lautaro Mining Reports Profit for Fiscal Year

The Lautaro Nitrate Company, Ltd., has reported for the fiscal year ended June 30 a distributable net profit of £790,890, compared with £664,509 in the preceding fiscal year. Medley G. B. Whelpley, chairman, said that £263,743 was applied to interest at the rate of 4 percent on the dollar issue of income bonds and two sterling issues of income debenture stock and 1 percent to bank creditors.

FERTILIZER MATERIALS
Domestic — Import — Export
FRANK R. JACKLE
495 Lexington Ave., New York
Telephone: MU 9-9188
Cable Address: "JACKLECO"

Domestic SULPHATE of AMMONIA AND AMMONIA LIQUOR
MADE IN THE U.S.A.
Barrett NITROGEN
THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET • NEW YORK, N. Y.

CRUDE SULPHUR
99½% PURE
Free From
ARSENIC, SELENIUM AND TELLURIUM
TEXAS GULF SULPHUR COMPANY
(INCORPORATED)
75 East 45th St., New York City
Deposits and Plants: Newgulf and Long Point, Texas

# Shipping Information

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## Imports at U. S. Ports

### New York Imports

ALMOND KERNELS—200 cs, Segel Brokerage Co
200 cs, Manhattan Nut Co
150 bgs, Morteza Khoerovschab

ALOE—94 cs, Selma Mercantile Corp
76 tins, Wessel Duval & Co
200 tins, H E Botzow & Co
249 tins, Wessel Duval & Co

ANISE—330 bgs, Barr Shipping Co

STAR—15 cs, L & R Millen
100 bgs, Sokol & Co
150 bgs, Wah Young Co

BABASSU KERNELS—833 bgs, General Food Corp
3,000 bgs, Bankers Trust Co

BANANA POWDER—2 cs, Ecuadarian Corp

BLOOD, DRIED—1,998 bgs, Armour & Co

BONES—1,366 bgs, American Agricultural & Chem Co
1,152 bgs, Guaranty Trust Co

BRISTLES—13 cs, M Broverman & Son
2 cs, Manufacturers Trust Co
3 cs, Chesnut Cooper & Co
13 cs, M Broverman & Son

CACTUS—16 bxs, S B Penick & Co

CARAWAY SEED—29 bgs

CARDAMOM—10 cs, Johnson Tervas
10 cs, Joensson & Cross
10 cs, Norden & Archibald

CASSIA—200 bls, Arnhold & Co
80 bls, Geo Uhe & Co
100 bls, Wah Young Co

BROKEN—70 bls, Geo Uhe & Co
55 bls, Geo Uhe & Co
200 bls, Wm Archibald
200 bls, Stickney & Poor Spice Co

BUDS—33 bls, Geo Uhe & Co

ROLLS—151 bls, Geo Uhe & Co
165 bls, Geo Uhe & Co
150 bls, McCormick & Co

VERA—470 bls, Catz American Co

CASTOR BEANS—3,400 bgs, Baker Castor Oil
319 bgs, C Williams
1,166 bgs, Bunge North American Grain Co
3,400 bgs, Spencer Kellogg & Sons
499 bgs, Bunge North American Grain Co
1,700 bgs, Berkshire Chem Co
1,700 bgs, Spencer Kellogg & Sons
300 bgs

CHAMOMILE FLOWERS—1 bale, United Fruit Co

CHINAGRASS—26 bls, Arnhold & Co

CHROME ORE—3,154 tons, 7 cwt

CINCHONA BARK—1,121 bls, Bankers Trust Co
415 bls, Bankers Trust Co

CINNAMON QUILLS—100 bls, C T Wilson & Co
50 bls, I Harrison & Whitney

COALTAR INTERMEDIATES—20 bbls, Gondrand Shipping Co
24 bbls, Gondrand Shipping Co

COBALT NICKEL—1 bx, C Tennant Sons & Co
1 bx, Ladoux & Co, Inc

COCOA BEANS—2,190 tons, 20 cwts, 2 qrs
500 bgs, Schultz & Co
300 bgs, Nieschlag & Co
70 bgs, W R Grace & Co
250 bgs, Wessel, Kulenkampf & Co
300 bgs, Daarnhouwer & Co
100 bgs, Wessel, Duval & Co
2,500 bgs, Nieschlag & Co
2,000 bgs, A C Israel Commodity Co
1,000 bgs, W Bartholomew & Co
1,000 W R Grace & Co
1,000 bgs, Wessel, Kulenkampf & Co
2,500 bgs, Nieschlag & Co
1,500 bgs, W Bartholomew & Co
500 bgs, A C Israel Commodity Co
2,000 bgs, N Bartholomew & Co
1,000 bgs, W R Grace & Co
1,500 bgs, Wessel, Kulenkampf & Co
1,000 bgs, General Cocoa Co
1,000 bgs, Wm Bartholomew & Co
1,000 bgs, W R Grace & Co
500 bgs, Chase National Bank

COCOA BUTTER—834 bgs, M Golodetz
834 bgs, Cocoa Import Co

COCONUT, DESIC—10 cs, Philippine Desic Coconut Corp
125 bgs, Philippine Desic Coconut Corp
210 cs, Trade Wind Foods
3 bgs, Trade Wind Foods
150 cs, Trade Wind Foods
70 bgs, Trade Wind Foods
540 cs, General Food Sales Corp
650 cs, General Food Sales Corp
500 bgs, Chase National Bank
1,000 bgs, Philip Levy
908 bgs, General Food Sales Corp
843 cs, General Food Sales Corp
562 cs, Durkee Famous Food
736 bgs, Durkee Famous Food
868 bgs, General Food Sales Corp
351 cs, General Food Sales Corp
740 cs, Durkee Famous Food
663 bgs, Durkee Famous Food
644 cs, Durkee Famous Food
340 cs, Philippine Desic Coconut Co
1,175 bgs, Philippine Desic Coconut Co
1,310 cs, Wood & Selick
355 ctns, Wood & Selick
260 cs, General Food Sales Corp
225 cs, Dodwell & Co
828 bgs, Philippine Desic Coconut Corp
760 cs, Wood & Selick
360 ctns, Wood & Selick
2,445 bgs, Wood & Selick
706 cs, Dodwell & Co
1,020 bgs, Wood & Selick
250 cs, General Food Sales Corp
700 cs, Dodwell & Co
230 bgs, Philippine Desic Coconut Corp
770 cs, Philippine Desic Coconut Corp
500 bgs, Chase National Bank
78 cs, General Food Sales Corp
6,338 bgs, General Food Sales Corp
300 bgs, Philippine Desic Coconut Corp
500 cs, Dodwell & Co
30 cs, Trade Wind, Inc
25 bgs, Trade Wind, Inc
1,935 bgs, General Food Sales Corp
283 cs, Philippine Desic Coconut Corp
750 bgs, Philippine Desic Coconut Corp
2,000 bgs, General Food Sales Corp

COCONUTS—600 bgs, J A Manton
500 bgs, General Food Corp
700 bgs, J A Manton
500 bgs, Barclay Bank

CORK—20 bls, Aeolian Shipping Co
40 bls, Ontario Cork Co
39 bls, Cork Product Co

BLOCK—80 bls, Ontario Cork Co

DISCS—50 bls, Universal Transatlantic Corp
33 bls, Crown Cork & Seal Co
120 bls

SHAVINGS—153 bls, Mundet Cork Corp
105 bls, Mundet Cork Corp
1,425 bls, Mundet Cork Corp

VIRGIN—616 bls, Mundet Cork Corp

WOOD—42 bls, Mundet Cork Corp
700 bls, Pablo Calvet Co
100 bls, L Pardo & Co
80 bls, Atlantic Pacific Mfg Co
250 bls, Cork Trading Co
50 bls, Dodge Cork Co
104 bls, Mundet Cork Corp
270 bls, Cork Trading Co
126 bls, Mundet Cork Corp
77 bls, Rohner, Gehrig & Co
180 bls, Cork Trading Co
102 bls, Rohner, Gehrig & Co
100 bls, Cork Trading Co

COTTON LINTERS — 86 bls, Philadelphia National Bank
241 bls, West Texas Cotton Oil Co
1,038 bls

RESIDUE—43 bls, Schimmel Trading Corp

CUTTLEFISH BONES—42 cs, Levy & Levis Co
28 cs, S B Penick & Co
56 cs, Levy & Levis Co
14 cs, S B Penick & Co
45 cs, Corn Exchange Bank & Trust Co

DERRIS ROOT—105 bls, John Powell & Co

DIVI DIVI—561 bgs, J Maitland
1,078 bgs, Selma Mercantile Corp

DYES, ANILIN—19 dms, Ciba Co
67 dms, Goudrand Shipping Co
58 dms, Ciba Co
15 dms, Goudrand Shipping Co
65 dms, Ciba Co
15 dms, F Hirst & Co

FLEASEED—180 bgs, T M Duche & Sons

HUSK—140 bgs, T M Duche & Sons

GALANGAL ROOT—15 bls, Geo Uhe Co

GLUE, BONE—30 bgs, Biological Raw Product Co
100 bgs, C B Hewett & Co

GLUESTOCK—26 bls, H Remis
295 bls, First National Bank

GRAPHITE—666 bgs, Joseph Dixon Crucible Co

GREASE—138 cks, Balfour, Guthrie & Co

GROMITE—4 cs

GUM—17 cs, Rohner, Gehrig & Co

ARABIC—95 bgs, Frank-Vliet Co

BYSABALL—20 bgs, A D Isbetcherian

CHICLE—208 bls, Chicle Development Co
108 bls, Chicle Development Co
70 bls, Chicle Development Co

COPAL—67 bgs, O G Innes Corp
150 bgs, W H Scheel
40 bgs, Stroock & Wittenberg Corp
280 bgs, France, Campbell & Darling
50 bgs, W H Scheel
304 bgs, O G Innes Corp
237 baskets, Credo Commodities Co

DAMMAR—200 bgs, Thurston & Braidich
100 cs, Stroock & Wittenberg Corp
100 cs, Chase National Bank
200 cs, Thurston & Braidich

KARAYA—66 bgs, Wm M Allison & Co
267 bgs, Wm M Allison Co
66 bgs, A D Isbetcherian Co
66 bgs, Paul A Dunkel & Co
67 bgs, Innis Speiden & Co
66 bgs, Paul A Dunkel & Co
598 bgs, Frank Vleit Co
200 bgs, Paul A Dunkel & Co
133 bgs, Orbis Product Corp
133 bgs, T M Duche & Sons
66 bgs, F W Mead & Co
132 bgs, Innis Speiden & Co
127 bgs, Wm M Allison & Co
200 bgs, S B Penick & Co
66 bgs, Orbis Product Corp
133 bgs, S B Penick & Co
200 bgs, Innis Speiden & Co
100 bgs, T M Duche & Sons
65 bgs, Orbis Product Corp
100 bgs, Innis Speiden & Co
133 bgs, Orbis Product Corp
200 bgs, Orbis Product Corp
226 bgs, Wm M Allison & Co
134 bgs, A D Isbetcherian Co

LOCUST BEAN—100 bgs, American Commerce & Industrial Supply Co
130 bgs, Stein Hall & Co
220 bgs

OLIBANUM—20 cs, American Moshod Fur Co
66 bgs, Frank Vliet Co

PERILLA—97 bgs, Chicle Development Co

TRAGACANTH—6,615 bgs
30 cs

HENNA LEAVES, BROWN—52 bls, J L Hopkins & Co

GREEN—27 bls, J L Hopkins & Co

POWERS BROWN—50 bls, J L Hopkins & Co

POWDER GREEN—50 bls, J L Hopkins & Co

ILMENITE—500 tons, National Lead Co

IPECAC ROOT—15 bls, Sylvio Gaguine

IRON OXIDE—243 bbls, C K Williams & Co
121 bbls, Reichard Coulston, Inc
185 bbls, Robinson Wagner Co
250 bbls, C K Williams & Co
125 bbls, C J Osborn & Co
134 bbls, Robinson & Wagner Co

JUNIPER BERRIES—73 bgs, S B Penick & Co
83 bgs, Corn Exchange Bank Trust Co

LAUREL LEAVES—18 bls, Barr Shipping Co
37 bls, Kachurin Drug Co
19 bls, Levy & Levis Co
40 bls, Barr Shipping Co
12 bls, Bankers Trust Co
38 bls, Corn Exchange Bank Trust Co

LEAD ORE—959 bgs, Trust Co of North America

LINSEED OIL PUTTY—500 kegs, Anglo American Oilex, Inc

LOGWOOD—quantity, American Dyewood Co

EXTRACT—240 cks, American Dyewood Co

MANGANESE ORE—4,500 tons, Bethlehem Steel Co
1,600 long tons, Philipp Bros
2,000 tons, E J Lavino & Co

MARJORAM LEAVES—120 bgs, L A Villagron

MEDICINAL PREPS—7 cs, United Trust Co

MICA—10 cs, Sylvio Gaguine
50 cs, Wm Brand
60 cs, York Mercantile Co
50 cs, Brazilian Mineral & Timber Co
60 cs, Rector Mineral & Trading Co
137 cs, F D Pitts & Co
452 cs, Eugene Munsell & Co
20 cs, F D Pitts & Co

BLOCK—6 cs, Heyman & Co

DISCS—1 cs, Gillespie-Rogers-Pyatt Co
11 cs, Gillespie-Rogers-Pyatt Co
5 cs, American Mica Works
4 cs, Heyman & Co
24 cs, A O Schoonmaker Insulation Co
3 cs, Schwab Bros

FILM—5 cs, Gillespie-Rogers-Pyatt Co
100 cs, American Mica Works
2 cs, Heyman & Co
9 cs, Schwab Bros
7 cs, Cornelis & Suhr
2 cs, Schwab Bros
36 cs, Wm Brand & Co

SPLITTINGS—225 cs, General Electric Co
250 cs, Gillespie-Rogers-Pyatt Co
175 cs, General Electric Co
112 cs, Gillespie-Rogers-Pyatt Co
50 cs, General Electric Co
93 cs, Gillespie-Rogers-Pyatt Co
100 cs, American Mica Works
100 cs, Otto Gerdau Co
212 cs, Cornelis & Suhr

NUTGALLS—34 bgs, Geo Uhe Co

NUX VOMICA—800 bgs, Volkart Bros
560 bgs, Carleton & Moffet

OIL, CANANGA—4 dms, Stein, Hall & Co
1 dm, Stein, Hall & Co

CASHEW SHELL—300 dms, Harvel Research Corp

CASSIA—5 dms, Dodge & Olcott Co

CASTOR—151 dms, M Golodetz
125 dms, Spencer Kellogg & Sons
52 dms, M Golodetz
218 dms, Tunley & Co
340 dms, Smith-Wehman Co
248 dms, Wessel, Duval & Co
60 dms, M Golodetz
250 dms, Murray Oil Product Co
250 dms, W R Grace & Co

CHINAWOOD—19,165 dms, Universal Trading Corp

COCONUT—500 long tons, Philippine Refining Corp
1,709 long tons, Philippine Refining Corp

COD—100 cks, Scandinavian Oil Co

COTTONSEED—373 bbls, Tradesmen National Bank Trust Co
1 can

CRUDE—4 dms, G M Fisher

ESSENTIAL—13 dms, National City Bank
2 dms, Geo Lueders & Co

FUEL—10,000 bbls, Asiatic Petroleum Corp

GAS—89,604 bbls, Petroleos Mexicanos
20,625 bbls, First National Oil Corp

LAVENDER SPIKE—10 dms, Bank of Manhattan Trust Co
9 dms, Chase National Bank Trust Co
4 dms, National City Bank
4 dms, Roure Dupont, Inc
2 dms, Chase National Bank Trust Co

LEMONGRASS—10 dms, Volkart Bros
6 dms, Colgate-Palmolive-Peet Co
6 dms, Van Amerigen & Haebler
3 dms, Fritzsche Bros
3 dms, Van Amerigen & Haebler
6 dms, T M Duche & Sons
15 dms, H P Winter & Co
12 dms, Firmenich & Co
6 dms, Geo Lueders & Co

LIME—2 cs, J W Lyon
1 cs, Dodge & Olcott Co

OLIVE—313 dms, Schroeder Bros

ORANGE—19 cs, T M Duche & Sons
4 cs, P R Dreyer
12 dms, Ungerer & Co
25 dms, Fritzsche Bros
98 cs, T M Duche & Sons
80 cs, Dodge & Olcott Co
13 cs, General Drug Co
4 cs, W J Bush & Co
4 dms, Norda Essential Oil & Chem Co
8 cs
18 cs, P R Dreyer

PETITGRAIN—2 dms, W R Grace & Co

PIMENTO LEAF—2 dms, Gillespie & Co

ROSE—2 cs

SANDALWOOD—27 cs, Geo Lueders & Co
27 cs, Geo Lueders & Co
25 cs, Geo Uhe Co

VETIVER—6 dms, Stein, Hall & Co
2 dms, Stein, Hall & Co
1 pkg, Stein, Hall & Co

PAPRIKA—50 bgs
25 bgs, D C Andrews & Co
150 bgs, Great Atlantic & Pacific Tea Co
100 bgs, Great Atlantic & Pacific Tea Co
150 bgs
50 bgs, D G Evans Coffee Co
50 bgs, Frank Tea & Spice Co
50 bgs, Morris J Golomback
50 Owl Product, Inc
25 bgs, Victor M Calderon & Co
25 bgs, Knickerbocker Mills Co
50 cs, Great Atlantic & Pacific Tea Co

PEPPER—100 bgs, H Schoenfeld & Son
50 bgs, Boston Brokerage Co

BLACK—1,560 bgs, M Rothschild

PERFUME—4 cs, Atlantic Freighting Corp
4 cs, United Fruit Co

PETROLEUM, CRUDE—74,525 bbls, Gulf Oil Corp

PIMENTO—200 bgs, J A Manton

QUARTZ—500 cs, Eugene Munsell & Co

ROCK CRYSTAL—319 cs, L J Buck
5 cs, E Munsell & Co
965 cs, L J Buck

RUTILE—600 bgs

SAGE LEAVES—598 bgs
41 bgs, Barr Shipping Co
41 bgs, Kachurin Drug Co
85 bgs, Barr Shipping Co
22 bgs
62 bgs, Corn Exchange Bank Trust Co
41 bgs, Corn Exchange Bank Trust Co

SAPONIN—68 cs, W R Grace & Co

SARSAPARILLA ROOT—16 bls, S B Penick & Co

SCHEELITE—393 bgs, Watson, Geach & Co

SEAGRASS—23 bls, E Miltenberg

SESAME SEED—200 bgs, Sokol & Co
25 bgs, L & R Millen
140 bgs, W G Scarlet & Co
200 bgs, Credo Commodities Co
300 bgs, Archibald & Kendall
150 bgs, Credo Commodities Co

SHELLAC—50 bgs, Gillespie-Rogers-Pyatt Co
300 bgs, Wm Zinsser & Co
100 cs, Schwab Bros
50 cs, Mac Lac Co
150 bgs, E E Androvette

SEEDLAC—300 bgs, Mantrose Corp

SOAP BARK—50 bgs, Peek & Velsor

TALLOW—1,778 pkgs, Guaranty Trust Co
294 cks, Marcus Ruth Jerome

TANKAGE—2,240 bgs
1,222 bgs, Armour & Co

TAPIOCA FLOUR—3,990 bgs, Stein, Hall & Co

PEARL—110 bgs, Catz American Co

SIFTINGS—250 bgs, H P Winter & Co

TARA POWDER—223 bgs, Tannin Corp
259 bgs, W R Grace & Co

SHEATH—339 bgs, W R Grace & Co

TEAWASTE—2,055 bgs, Citro Chem Co

THYME LEAVES—82 bgs, S B Penick & Co
340 bgs, Irving Trust Co

TIN WOLFRAM ORE—500 bgs, W R Grace & Co

TOLU BALSAM—96 cs, Pan-American Export & Import Co

TONKA BEANS—17 bbls, H A Gogarty

TUCUM KERNELS—200 bgs, General Food Corp

TUNGSTEN ORE—372 bgs, Watson, Geach & Co

UVA URSI LEAVES—333 bgs, Corn Exchange Bank Trust Co

VANILLA BEANS—6 cs, Norda Essential Oil & Chem Co

WAX, BEES—20 bls, Sylvio Gaguine
8 bdls, J G Paton
9 bdls, Geck Trading Corp
9 bgs, Credo Commodities Co
24 bgs, Credo Commodities Co
40 bgs, Credo Commodities Co

CARNAUBA—114 bgs, D C Andrews & Co
275 bgs, Wm M Allison & Co
68 bgs, Strahl & Pitsch

OURICURY—34 bgs, Universal Carloading & Distr Co
274 bgs, E A Bromund & Co
55 bgs, Smith & Nichols
56 bgs, W M Allison & Co
112 bgs, Innis, Speiden & Co
17 bgs, Universal Carloading & Distr Co
125 bgs, Innis, Speiden & Co
63 bgs, E A Bromund & Co
132 bgs, Avon Trading Co
1 pkg, A Hurst & Co
1 pkg, J P Eberhart
54 bgs, Wm M Allison & Co

ZINC ORE—3,766 bgs, Trust Co of North America

ZIRCON—1,010 bgs, Philadelphia National Bank
1,004 bgs

### Baltimore Imports

BLOOD, DRIED—1,122 bgs

CHROME ORE—2,000 tons
3,937 tons, Bethlehem Steel Co

IRON ORE—5,700 tons, Bethlehem Steel Co

IRON PYRITES—5,191 tons

MANGANESE ORE—18,250 tons

MONAZITE SAND—640 bgs

OIL, GAS—69,038 bbls, Standard Oil Co, N J

PETROLEUM, CRUDE—119,825 bbls, Standard Oil Co, N J

### Philadelphia Imports

BERYLLIUM ORE—1,018 bgs

CHROME ORE—4,215 tons

CORK, VIRGIN—6,921 bls, Chase National Bank

WASTE—2,136 bls, Chase National Bank
8,080 bls, Chase National Bank

CRYOLITE—560 tons

OIL, FUEL—73,000 bbls, Socony Vacuum Oil Co

NEATSFOOT—55 bbls, Order

PETROLEUM, CRUDE—140,000 bbls, Atlantic Refining Co

## *Foreign Trade Rules*

Information recently published by the Department of Commerce on foreign tariff and related trade regulations includes the following:—

**Conch:**—Bahamas prohibits the exportation of conch or the shell.

**Geranium:**—Algeria requires that circulation permits from the appropriate control committee for exportation or circulation of essences of geranium and lavender.

**Hydrocarbons:**—French Equatorial Africa has created a hydrocarbon committee, the duties of which include the control of hydrocarbons, centralization of administrative and commercial requirements, purchase and distribution.

**Margarin:**—Sweden has reduced the import duty on household margarin having a melting point of below 36 deg. Centigrade from 1.43 crown to 0.62 crown per kilogram.

**Metals:**—Algeria has organized a section for the distribution of ferrous and non-ferrous metals.

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## *Synthesizing Drying Oils*

—*Continued from page* 38

ored. From the foregoing it will be seen that in general the rate of conjugation increases with an increase in temperature of reaction, and I accordingly prefer to carry out the procedure at an elevated temperature. By the term, "elevated temperature," as used in the specification and claims, I refer to a temperature above normal room temperature.

The most diverse materials may be operated upon, the criterion being that it should have two or more double bonds in the unconjugated position. Thus I have found that my process is applicable to such lipid substances as the oils of flaxseed, corn, cottonseed, soybean, poppyseed, rape, teaseed, sunflower, perilla, peanut, and fish oils such as codliver oil or to fatty acids, esters, simple or complex glycerides, alcohols, or waxes derived from these substances, or from the isolated constituents of such natural lipid materials. Thus my process is applicable to linolic, linolenic, or arachidonic acids or other acids having two or more unconjugated double bonds, or to the fatty acids of the above oils, such as the mixed fatty acids of linseed oil.

In some instances it is desirable to prepare soaps from the fatty acids prior to carrying out the reaction of the invention. This may be done by any established saponification procedure or in reaction mixture. Likewise, if desired, the esters such as the methyl, ethyl, or other alcoholic esters may be prepared prior to carrying out the procedure and these esters used as the starting ingredient, or, if desired, the ene-ols, as, for instance, linoleyl alcohol may be used.

The basic reagent for my reaction process is preferably an alcoholate of potassium, sodium, or lithium, although other inorganic substances having basic properties such as the aluminum bases may be used in some instances. Such basic alcoholates may be prepared by adding an alcohol such as butyl alcohol to the basic metal such as metallic sodium or metallic potassium, and the basic alcoholate thus prepared is introduced into the material to be reacted upon either with or without the addition of a solvent, or such a reagent may be prepared by dissolving the hydroxide of the metal, such as potassium bydroxide in the organic solvent without the use of water. Thus potassium hydroxide dissolved in butyl alcohol is an excellent reagent.

In order to carry out the reaction procedure most expeditiously it is desirable uniformly to distribute the basic reagent, as, for instance, the basic alcoholate throughout the material to be reacted upon, and for this purpose I prefer to carry out the reaction in the presence of a common solvent which is capable of dissolving both the material to be reacted upon and the basic reagent. It is usually convenient to dissolve the material to be reacted upon in an alcohol corresponding to the alcohol used in preparing the basic reagent, when an alcoholate is used for this ingredient, but this is not essential, for other common organic solvents may be used. Thus where potassium butylate is used as the basic reagent, butyl alcohol gives good results when used as the solvent, although other alcohols, or other organic media such as the ketones or ethers may be used as the solvent medium if they have the desired solvent action. In some instances the alcohol constituent of the basic reagent is in itself sufficient to serve as the solvent medium where the reaction is carried out at sufficiently elevated temperatures.

Organic bases such as the amines may also be used as the basic reagent, although the speed of the reaction with them is usually much less than when using the alkali alcoholates and the yield not as high. Amine bases such as triethylamine and tributylamine give appreciable yields of the conjugated double bond material, particularly at elevated temperatures. Other organic bases such as pyridin or sodamide also produce some of the conjugated double bond material when used as the basic reagent in our reaction.

The yields when using the alkali alcoholates or solutions of alkali hydroxides in alcohols are substantially quantitative and the reactions are usually complete in a few hours, whereas with organic bases much lower ranges of yields are produced, and longer time of reaction is necessary.

The solid basic metals and metallic bases may also be used, as will be pointed out specificaly in the examples hereinafter given.

The operating temperatures, conditions of reaction under which my procedure may be carried out, and other details, are illustrated by the following examples of the invention which are intended merely to be illustrative and not as limitations upon the invention.

### Example I

A quantity of linseed oil fatty acids is first thoroughly mixed with five times its weight of 20 percent sodium ethylate in ethyl alcohol (the percentage being based upon the quantity of ethyl alcohol present) and then additional ethyl alcohol is added in order to produce a solution. The mixture is then refluxed at atmospheric pressure to increase the conjugation. Where the reaction is carried out in an oil-bath, the additional ethyl alcohol is unnecessary, since the ethyl alcohol present in the 20 percent ethyl alcohol solution of sodium ethylate serves as a solvent for the fatty acids involved. After six and one-half hours of refluxing aspectographic analysis of a sample shows an absorption factor of 123 at 2350 Angstrom units, thus indicating the presence of conjugated dienes and trienes in the material. The spectographic analysis in this instance and in those hereinafter given is made with a sample one percent solution. one centimeter in thickness, and the analysis is carried out according to established procedures.

I have discovered that spectographic analyses in the light ranges of from about 2300 to about 2350 Angstrom units, and at about 2700 Angstrom units is an accurate means of gauging conjugation in many cases more accurate than such accepted procedures as (1) the Kaufman "diene number" procedure or (2) the Hanus "iodine number," and the increase in the above absorption factors thus indicates an increase in double bond conjugations and the effects attributed to double bond conjugation such as the drying or film-forming ability of the derivative products.

After twenty-four hours of boiling the absorption factors in the above material increase to 296 at 2350 Angstrom units and to 277 at 2700 Angstrom units, thus indicating a decided increase in the conjugated double bond structures produced by my procedure.

### Example II

A sample of linseed oil fatty acid prepared according to any usual procedure, such as a one-minute saponification treatment with potassium hydroxide followed by acidification and washing to remove impurities and an extraction to isolate the pure dry fatty acid mixture, is dissolved in four times its weight of 20 percent sodium butylate in butyl alcohol, and additional butyl alcohol added to complete the solution. The mixture is then refluxed at atmospheric pressure. After two hours of refluxing a spectographic analysis of a sample shows an absorption factor of 232 at 2350 Angstrom units, and an absorption factor of 241 at 2700 Angstrom units. After an additional two hours of refluxing a spectographic analysis shows an absorption factor of 300 at 2350 Angstrom units. The refluxing when continued for an additional seventeen hours raises the absorption factors to 370 at 2350 Angstrom units and 292 at 2700 Angstrom units. By comparison it may be noted that the absorption factor of tung oil is about 1200 at 2700 Angstrom units. The relatively high total of the absorption factors of the thus treated linseed oil fatty acids indicates the presence of relatively large percentages of the conjugated double bond constituents. Such materials yield suitable film-forming products when appropriately treated, as will hereinafter be explained.

*(To be continued)*

# What You Can Use

**Guide to Materials That Are Suitable for Various Purposes in Chemical Converting, Compounding, and Processing Industries**

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## Propene

### Reagents for the Oxidation of Propene

Arsenates
Barium dioxide
Calcium dioxide
Calcium hypochlorite and cobalt
Chromates
Hydrogen peroxide
Magnesium dioxide
Perborates
Permanganates
Persulphates
Sodium dioxide
Vanadates

### Catalysts Used in Manufacture of Propene

Aluminum
Copper
Copper gauze
Copper salts
Copper wool
Magnesium
Palladium chloride
Platinum
Platinum chloride
Platinum-group metals
Pumice

## Pulp

## *(Paper Pulp)*

*(Continued from December 22 issue)*

### Reagents for Assay of Cellulose in Pulp

Bromine water
Chlorine
Chlorine water, concentrated
Chlorine water, diluted
Glycerin and sulphuric acid
Hydrogen peroxide
Hydrochloric acid and potassium chlorate
Nitric acid
Nitric acid and potassium chlorate
Nitrous acid
Nitric acid and sulphuric acid
Phenol
Potassium permanganate, neutral
Potassium permanganate and acetic acid
Potassium permanganate and hydrochloric acid
Potassium permanganate with nitric acid
Sodium oxychloride

### Sizing Agents for Pulp

Abopon
Acacia
Accroides gums
Acetylarabin
Agar
Alums
Aluminum hydroxide
Aluminum salts
Aluminum sulphate
Aluminum-ferric cake
Aluminum-iron sulphate
2-Amino-5-acetyl-4′-oxy-3′-carboxydiphenyl-sulphone
Ammonium bicarbonate
Ammonium borate
Ammonium chloride
Ammonium hydroxide
Ammonium phosphate
Ammonium tungstate
Ammonium-aluminum sulphate
Barium nitrate
Barium oxide
Barium sulphate
Bauxite
Beeswax
Blackboy gum
Blood albumen
Calcium chloride
Calcium-magnesium chloride
Casein
Cellulose esters and ethers
Chalk
Chinese wax
Chlorinated rubber
Clay
Cornstarch
Cotosize
Complex borophosphate
Cryolite
Crystalic
Dextrin
Dry-tex
Farina
Feldspar
Gelatin
Glue
Gum arabic
Gum karaya
Gum senegal
Halogenated rubber derivatives
Insect wax
Isinglass
Kaolin
Lacquer
Lupogum
Magnesium chloride
Mastic
Metaphosphoric acid
Migasol EP
Montan wax
Niter cake
Opalwax
Paracol
Paraffin
Potassium nitrate
Potassium silicate
Potato starch
Rice flour
Rosin
Rosin oil
Rosin size
Saccharin
Shellac
Silica
Silicon phosphate
Sodium acid sulphate
Sodium aluminate
Sodium bicarbonate
Sodium bisulphate
Sodium carbonate
Sodium chloride
Sodium hydroxide
Sodium palmitate
Sodium resinate
Sodium silicate
Sodium-aluminum sulphate
Soybean oil
Soybean protein
Soysein
Spermaceti
Starch
Starch compounds
Sugar
Talc
Tall oil
Tallow
Vegetable protein
Yacca gum
Zinc chloride

### Slime Preventives in Pulp Processing

Ammonia
Chloramine
Chlorine
Dichloramine
Monochloramine

### Solvents for Cellulose in Pulp

Cuprammonium hydrate solution
Sulphur trioxide with selenium oxychloride
Thiocyanates
Thiocyanates with calcium chloride
Thiocyanates with citric acid
Zinc chloride dissolved in twice its weight of 35 percent hydrochloric acid
Zinc chloride solution (40 to 50 percent)

## Pyrethrum

### Antioxidants for Pyrethrum Dust

Hydroquinone
Pyrocatechol
Pyrogallol
Resorcinol
Tannic acid
Tertiary alkyl substituted orthodihydroxybenzene

### Antioxidants for Pyrethrum Extracts

*(Promoters of stability to light on the part of oil-soluble extracts and insecticidal preparations thereof)*

Alphanaphthol
Alphanaphthylamine
Aminoanthraquinone
2-Amino-5-hydroxy-toluene
Aminonaphthols
Antioxidant No. 5
Bibenzyl
Betanaphthol
Carbazole
Decalin
Decahydronaphthalene
Dibenzylparaaminophenol
Dihydric phenols
Diphenylamine
Diphenylmethane
Eugenol
Hydroquinone
Meta-aminophenol
Methyldiphenylamine
Monobenzylparaaminophenol
Monohydric phenols
Naphthols
Napthylamine
Orthoaminophenols
Para-aminophenol
Para-aminotriphenylmethane
Parahydroxyphenylmorpholin
Phenylalphanaphthylamine
Pine oil
Thymol
1:4 Toluidoanthraquinone

### Preservatives for Freshly Harvested Pyrethrum Flowers

*(Applied by spraying)*

Cymene
Decalin
Kerosene

## Quinone

### Catalysts Used in Making Quinone

Antimony oxide
Brass
Cadmium oxide
Chromium oxide
Cobalt
Cobalt oxide
Copper
Copper oxide
Gold
Iron
Iron vanadate
Lead oxide
Manganese oxide
Molybdenum
Molybdenum compounds
Ruthenium
Silver chromate
Thorium oxide
Tungsten
Vanadium
Vanadium compounds
Vanadium oxide

# Business Wants and Offers

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### Agencies Wanted

NEW YORK JOBBING and importing firm established over twenty years is interested in securing new connections for the sale of raw materials, by-products or chemical specialties. BOX 497, Oil, Paint and Drug Reporter.

TO CHEMICAL and other manufacturers: I want a sales agency to market raw materials and good, improved or new products on commission or other basis, in the south-eastern states. I am well versed in selling and developing satisfactory outlets for meritorious products. A. J. Hereford, 1008 Glenn Bldg., Atlanta, Ga.

PAINTS, VARNISHES and sundries. Group of salesmen covering metropolitan New York having extensive following and record of production interested in representing reliable manufacturer. BOX 517, Oil, Paint and Drug Reporter.

### Building Offered

GROUND FLOOR, 50-200, brick sprinklered building; live steam available; windows on all sides; watchman service; yard space; unrestricted district in Brooklyn near subway. The R. L. Kraft Company, Woolworth Building. COrtlandt 7-9377.

### Equipment Offered

FOR SALE:—Two 6x8 ft. pebble mills, 16x40 roller mills, 12x30 roller mills, 9x24 roller mills, 15 to 40-gallon pony mixers, lead mixers. Sell us your surplus equipment. Irving Barcan Company, 30 Church street, New York City.

FOR SALE—One Day 12"x32" 5 roller mill, motor driven; pony mixers, 8 to 80 gals.; three Kent 8" lab. stone mills; three Ross 26" stone mills with iron mill feeds; pebble mills, lab. to 700 gals.; Day jumbo jacketed mixers, 700 to 1,250 gals.; thirty filter presses, 12" to 36"; powder mixers, 100 to 2,000 lbs.; one W. & P. 50-gal. vacuum mixer; W. & P. mixers, lab. to 200 gals.; copper and aluminum kettles, 10 to 250 gals.; dryers; Sweetland filters, etc. Send for complete bulletins. Brill Equipment Corporation, 183 Varick street, New York City.

### Equipment Offered

FIND what you want right in New York City. Pony mixers, post mixers, Day sifter-mixers, portable mixers, revolvators, jacketed kettles, tanks, three-roller mills, dough mixers. Storms-Harvey Equipment Company, 123 Bleecker street. SPring 7-8955.

ROLLER MILLS, 5 rolls, 16x40 and 20x40. Have five National equipment "Springfield" mills for sale. Perfect condition. BOX 511, Oil, Paint and Drug Reporter.

AVAILABLE NOW:—Day powder mixers, 50 to 3,000 lbs.; 30-in. and 36-in. copper jacketed vacuum pans; Kiefer 12-stem rotary vacuum filler; Patterson 30 and 50-gallon porcelain-lined pebble mills; Abbe double jar mill, 5-gallon capacity; Colton No. 2 tube filler and closer; 12 ft. and 30 ft. belt conveyors; Sharples super centrifuge, totally enclosed; Buffalo vacuum drum dryer, 48 in. x 40 in.; Inconel atmospheric drum dryer, 17 in. x 20 in.; aluminum and copper jacketed kettles, all sizes. What have you for sale? Machinery & Equipment Corporation, 59 E. 4th street, New York City.

FOR SALE—Stainless steel truck tank, 2,700-gal. Heil. Irving Jaffe, 401 Broadway, New York City. WOrth 4-6114.

IMMEDIATE DELIVERY—100 stainless steel 5-gallon tanks and mixers, insulated; excellent for reshipping; exceptional bargain. Mackley Trading Co., 1261 Broadway, New York City.

FOR SALE—Used aluminum jacketed kettle, 5½ feet diameter by 7½ feet high, capacity 1,000 gallons. Located in central states. BOX 514, Oil, Paint and Drug Reporter.

### Equipment Wanted

WANTED—Our expansion program requires additional equipment. We need iron and wood filter presses, jacketed kettles, mixer, pulverizer, dryer, etc. No dealers. Send your offerings to BOX 468, Oil, Paint and Drug Reporter.

### Laboratory Wanted

LABORATORY for research; spacious; furnished; well equipped; buy or rent in New York. BOX 512, Oil, Paint and Drug Reporter.

### Materials Offered

"LUCIPHOR" luminous pigments, long brilliant afterglow, chemically stable, fine crystals, various shades and colors, luciphor (reg. and pats. pending) luminous pigments for paints and plastics. Write Luciphor, Inc., 114 East 28th street, New York, N. Y.

WAXES, carnauba, montan, bleached and black, Japan, ceresin and beeswax substitutes. We have manufactured and compounded vegetable and mineral waxes for over 25 years. Our quality waxes are staple, deliveries are prompt and dependable. Samples and specifications sent on request. Waxolite Products, Inc., 508 W. 37th street, New York.

FOR SALE—Odd lots minerals; 350 pounds hematite massive, 100 pounds optical quartz, 75 pounds azurite, 30 pounds apatite select, 100 pounds chalcopyrite, 100 pounds malachite; also 1,500 pounds copper fluosilicate. BOX 513, Oil, Paint and Drug Reporter.

### Materials Wanted

WILL PURCHASE your surplus and discontinued lots of chemicals, oils, waxes, dyes, intermediates, dry colors, greases, metals and other raw materials and by-products. Also entire plants. Consult inventory and plant superintendent. Barclay Chemical Co., Inc., 75 Varick street, New York. Telephone WAlker 5-4250.

BUYING FOR immediate delivery:—Pharmaceutical products and drugs. American Trading Co., S. De R. L. Avenida Juarez 30, Mexico, DF.

CAUSTIC SODA, bicarbonate of soda and other chemicals for industry. Interested in car-load lots. Offers to American Trading Co., S. De R. L. Avenida Juarez 30, Mexico DF.

### Positions Vacant

EXPERIENCED A-1 SALESMAN wanted to sell mineral colors to paint and allied manufacturing trades. Gentile. Technical education preferred but not essential. Straight salary plus expenses. State age, experience and previous earnings, with photograph if possible. BOX 485, Oil, Paint and Drug Reporter.

CHEMIST, experienced potassum chlorate manufacturing and designing of plant, wanted. Salary open. Attractive future. BOX 515, Oil, Paint and Drug Reporter.

### Positions Wanted

PAINT, VARNISH, lacquer chemist wants connection with reliable concern. At present specializing in government and defense specification work; also synthetics. BOX 508, Oil, Paint and Drug Reporter.

EXPERIENCED CHEMICAL engineer, 32, in research development, formulation, and production of varnishes, paints, colloidal coatings, shelf, industrial lines, wishes connection with progressive firm, location unrestricted. Draft deferred. Excellent references. BOX 510, Oil, Paint and Drug Reporter.

PAINT, VARNISH salesman—with over 30 years of practical knowledge and selling experience—good following among leading consumers in Brooklyn and Queens, wishes connection with first class manufacturer, commission basis, BOX 516, Oil, Paint and Drug Reporter.

### Services Offered

CHEMIST and chemical engineers—if you are now unemployed send your complete chronological record of education and experience to Chemist Advisory Council, Room 811, 60 East 42d street, New York City.

### Surplus Stock

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## *Labor Board Must Clarify Attitude*

—*Continued from page* 3

our views to be substituted for those of the agency which Congress has created to administer the act."

The board had ordered the company to disestablish its employees' organization; to cease giving effect to the contract it had with that body; to refund dues that had been checked off; and to reinstate several discharged workmen.

The Supreme Court did not take up these parts of the order, all of which had been vacated by the Circuit Court, holding that these matters depended for legality on the proof of coercion and domination.

### Points to Be Decided

The Supreme Court, in respect of its opinion that the company's utterances alone did not support a charge of coercion, but might be contributory, stated as follows the questions for clarification by the board:—

It is clear that the board specifically found that those utterances were unfair labor practices, and it does not appear that the board raised them to the stature of coercion by reliance on the surrounding circumstances. If the utterances are thus to be separated from their background, we find it difficult to sustain a finding of coercion with respect to them alone. The bulletin and the speeches set forth the right of the employees to do as they please without fear of retaliation by the company. Perhaps the purport of these utterances may be altered by imponderable subleties at work which it is not our function to appraise.

Whether their is sufficient findings and evidence of interference, restraint, coercion, and domination without reference to the bulletin and the speeches, or whether the whole course of conduct evidenced in part by the utterances was aimed at achieving objectives forbidden by the act, are questions for the board to decide upon the evidence.

Here we are not sufficiently certain from the findings that the board based its conclusion with regard to the independent upon the whole course of conduct revealed by this record. Rather it appears that the board rested heavily upon findings with regard to the bulletin and the speeches the adequacy of which we regard as doubtful.

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## *Trade Briefs*

**Roure-DuPont, Inc.,** chemicals and essential oils importer, has leased 4,000 square feet for office space at 366 Madison avenue, this city. The company is also expanding its laboratories at 352 Fourth avenue.

**Magnus Metal** Division of the National Lead Company has started construction of a one-story brick and steel plant embodying 65,000 square feet of operating space. The plant will supplant the one located at Ludlow, Ky., destroyed by fire more than a year ago.

**Union Oil Company** of California, Los Angeles, is conducting negotiations for new financing in the amount of $15,000,000 represented by long term debentures. Funds would be used for expansion purposes.

**Ralph Schaefer,** executive of the Schaefer Varnish Company, Louisville, has returned to his home in Audubon Park, Louisville, from St. Joseph Infirmary, Louisville, where he recently underwent an operation for appendicitis.

**K. W. Jappe,** director of purchases for the Hercules Powder Company, Wilmington, Del., has been elected chairman of the finance committee of the American Society of Mechanical Engineers.

**George F. Kerr,** manager of the New England division of the Ruberoid Company, this city, has been made a member of the directorate. Samuel P. Moffit, vice-president and director, has been made a member of the executive committee.

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